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ABSTRACT

This report describes the Orleans Parish Allied Health Profession Counseling Program, a three-year project developed to evaluate the effectiveness of providing health career information in a structured classroom setting. The materials for this program, which was designed specifically to provide high school students with detailed information concerning technical and professional allied health careers and to provide counseling and resource services to students and faculty in participating schools, provide the following: (1) course content and curriculum; (2) selection and implementation methodology; and (3) program evaluation, problems, and recommendations. The Appendices contain illustrative materials, evaluation instruments used to assess the effectiveness of the program, and a bibliography. (Author/HLM)

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AN ALLIED HEALTH PROFESSIONS COUNSELING PROGRAM MODEL : A GUIDE FOR SECONDARY SCHOOLS

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PREFACE

The Allied Health Professions Counseling Program was a one-year pilot project supported by the Department of Health, Education and Welfare, Bureau of Health Manpower; and implemented in four senior high schools of the New Orleans Public Schools System.

As a result of the pilot study, the program was funded for a three-year period under contract number 231-76-0065. During the 1977-78 school session the program was implemented in a fifth school, John McDonogh Senior High School.

The selection and methodology of the pilot study served as the guide for the three year program. Modifications were made as deemed necessary.

The program's evaluative anaylsis (1977-79) was done by Dr. Arthur V. Leary.

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INTRODUCTION

The purpose of this report is to describe the Orleans Parish Allied Health Professions Counseling Program, a three year project developed to evaluate the effectiveness of providing health career information in a structured classroom setting. The program was specifically designed to provide high school students with detailed information concerning technical and professional-level allied health careers and to provide counseling and resource services to the students and to the faculty assigned to the participating schools.

In order to provide regional allied health training programs with better informed and highly motivated students, the Allied Health Professions Counseling Program curriculum covered seven professional categories and included thirty-six of the more than two hundred allied health careers. These thirty-six careers were selected after reviewing education programs in Louisiana and Mississippi.

The program was made available to all interested students in five senior high schools. The class schedule allowed the counselor one day per week for administrative purposes. To maintain interest and to provide variety, several instructional methods were used,including lectures, audio-visual presentations, group and individual field trips, individual counseling, and a volunteer work experience. A remediation program was provided for those students having difficulty in science and mathematics.

Provisions were made for evaluating the program by administering a pre-program and a post-program test to all participating students and by developing a method of follow-up to determine the effectiveness of the program methodology.

SECTION I.
SELECTION AND IMPLEMENTATION METHODOLOGY

I. SELECTION AND IMPLEMENTATION METHODOLOGY

A. PARTICIPANT SELECTION

1. School Selection

The criteria for school selection included the location, the degree of support by the principal, and the absence of any structured career counseling within the facility. Of the eighteen high schools within the New Orleans Public System, four were chosen by the project director to participate in the Allied Health Professions Counseling Program. The selected schools were L.B. Landry Senior High, O.Perry Walker Senior High, G.W. Carver Senior High, and Walter L. Cohen Senior High.(Table 1)

Table 1. Schools Selected

Name of School	Location	1975-76 Enrollment	Racial Mixture
L.B. Landry	Westbank	1,263	White,Black
O.Perry Walker	Westbank	1,892	White,Black
Walter L. Cohen	Eastbank	2,124	Black
G.W. Carver	Eastbank	2,026	Black

2. Implementation

In October, 1975, a letter from the project director was sent to the principal of each participating in the program. The letter asked that the principal aid in implementing the program in his school. In response, each principal appointed one of the school guidance counselors to work with the Allied Health Professions Counselor during the implementation period. Each of these counselors was responsible for choosing the method of implementation at his school and for providing a list of prospective participants.

3. Student Selection

a. A supply of Allied Health Professions Counseling Program Announcements was provided each of the guidance counselors for distribution to teachers and students. In three schools, homeroom teachers were asked to submit a list of interested students. In the fourth school, science and mathematics teachers did the initial selection on the basis of students' grades.

b. Criteria for student selection included an aptitude for science and mathematics and an interest in pursuing a health profession upon high school graduation.

B. CLASS SCHEDULING

1. Scheduling Procedure

a. Since the Allied Health Professions Counseling Program was designed to include only a one-hour lecture per week, classes were scheduled on a revolving period basis. In this way, students missed scheduled classes only once every six weeks. For example, a class would meet during first period the first week and the second period during the second week.

b. Classes were scheduled at each of the schools on the same day each week to give the students and the counselor some degree of regularity.

c. Students were given individual class schedules during their orientation to the program.

2. Size

Group size was limited to twenty-five students. As anticipated, attendance problems and a high initial drop-out rate resulted in from ten to fifteen students attending each session. This reduced number resulted in better class participation.

C. CLASSROOM AND COUNSELING SPACE

Due to over-crowded conditions at three of the four schools, classroom space was difficult to obtain. Two schools provided a specific classroom regularly. One school provided space in the library study area, and one school was unable to provide the same space each week. One school also provided the counselor with office space, but no assigned space was available for counseling purposes in the other three schools.

D. CONTROL GROUP SELECTION

1. Size

A control group equal to the size of the participating group was chosen from four schools not included in the program. The schools were paired prior to selection of control group participants (Table 2).

Table 2. Control Groups

Participating Schools	Schools with Control Groups
L. B. Landry	McDonogh #35
O. Perry Walker	J. F. Kennedy
G. W. Carver	Marion Abramson
Walter L. Cohen	Alcee Fortier

2. Student Selection

Students were selected for the control group from a computer print-out and paired with participating students on the basis of grade level, sex, age, and race.

3. Records

The following information is being maintained on members of the control group: student identification number,address, school, telephone number, race, sex, and date of birth.

E. FOLLOW-UP PROCEDURE

1. Scope

A follow-up on all program and control group participants will be made for three years to determine the effectiveness of the Allied Health Professions Counseling Program.

2. Participant Follow-up

All students who completed the "Student Information Card" will be followed up September 1976,77 and 78. The following information will be obtained by computer: current address, telephone number, and academic grade level. Attempts will be made to obtain this data from students not followed by the computer - dropouts and graduates. Graduated seniors will be contacted by mail and asked their educational and/ or employment status and whether or not participation in the Allied Health Professions Counseling Program influenced their career choice.

3. Control Group Follow-up

Data will be obtained on the control group participants from the computer student identification system in September of each year. Graduated seniors will be contacted by mail and asked their educational and/or employment status, including their specific job or program of study.

SECTION II.
OPERATION OF MODEL

II. OPERATION OF MODEL

Description

1. Summary

The Allied Health Professions Counseling Program was a three-year program designed to provide students with basic information about the allied health field. The program consisted of six parts, including two classroom phases,counseling sessions, on-site observation, a volunteer work experience, and an academic remediation program. Graduating seniors were given certificates upon graduation.

The principals of the five participating schools were met with individually and presented the goals and the overview of the Allied Health Professions Counseling Program. The guidance chairperson in each school made the inital contact with tenth, eleventh, and twelfth grade homeroon classes for AHPCP. Informative flyers were distributed to homeroom teachers and students were instructed to indicate their interest in the program by signing a separate form. The Allied Health counselor met with officers of the Parents/Teachers Associations in the respective schools to acquaint parents with the program. Posters were placed in each school for recruiting purposes.

2. Survey of Allied Health Professions

a. Scope

The first phase of the program consisted of a survey course of allied health professions. Thirty-six careers in the following categories were included in the curriculum: laboratory personnel,hospital support personnel, dental support personnel,rehabilitation personnel, diagnostic and therapeutic personnel, medical support personnel, and veterinary personnel.

b. Content

At the beginning of each class, students were given occupational briefs which provided the following information: career title and abbreviation,job description, education/training requirements,interest/aptitude criteria, salary/working conditions,specialties and related occupations. An audio-visual presentation and/or a guest lecture presentation was provided, followed by a group discussion.

c. Evaluation

Preceding and upon completion of the course, each student was asked to complete the "Allied Health Career Evaluation Questionnaire" as a means of evaluating the program's effectiveness.

3. Allied Health Professions Seminar

The content of the second phase of the program was determined by student interest in specific professions. Students who participated in the first phase of the program were asked to indicate one or two areas of interest. Audio-visual materials, professional and student lecturers from health institutions were presented, followed by group discussion.

4. On-Site Observation

Phase III of the program consisted of on-site observation of health professionals at work. All students who had participated regularly in the previous phases were asked to choose one or two areas of interest and to obtain parental permission to participate in off-grounds field trips. Students who provided this information were scheduled for on-site visits.

5. Counseling Sessions

Counseling sessions were scheduled upon review of student academic records. Information on financial assistance and education/training programs related to interest area(s) was made available to each graduating senior as well as other interested participants. Application forms for college/university admission, loans and grants as well as registration for standardized tests (ACT,SAT) were completed during counseling sessions .

6. Volunteer Work Experience Program

The volunteer work experience was designed to familarize the student with the routine duties of the allied health worker. Eligible students were asked to indicate two career choices when they enrolled in AHPCP. Local participating facilities were asked to accept students for one-half day over a period of six weeks during the summer vacation months. Students who volunteered for the program were provided with a list of facilities and asked to contact the volunteer director for interviews. Bus tokens were purchased to provide transportation for students. Students who worked for a total of ninety hours were eligible for "World of Work" academic credit.

7. Remediation Programs

Science and Mathematics Remediation

a. The summer remediation program allowed students having difficulty in science and mathematics to improve in these subjects. A list of students with grades of "D" and "F" in the respective courses was compiled. After their parents were notified, eligible students were enrolled in the remedial Summer School Program conducted by the New Orleans Public School System. Tuition costs were paid for science and mathematics remediation only. The counselor monitored the participants weekly during the summer session.

b. Since individual tutoring was already available from local high school and college students and from adult volunteers throughout the school year, no specific program was set up.
However, students needing tutorial assistance were encouraged to participate.

ALLIED HEALTH PROFESSIONS COUNSELING PROGRAM

SURVEY COURSE

SESSION I. Orientation

1. Brief description of the Orleans Parish Allied Health Professions Counseling Program
    - a. Purpose
    - b. Scope
    - c. Content

2. Completion of Questionnaires
    - a. Personal Data : "Student Information Card"
    - b. "Allied Health Career Evaluation Questionnaire"

SESSION II. Introduction to Allied Health

1. General Lecture
    - a. Definition of "allied health"
    - b. Need for allied health professionals
    - c. Occupational outlook for health professionals

2. Audio-visual presentation
    - a. Employment of allied health workers
    - b. General discussion of personal requirements essential for becoming a "good" allied health worker

SESSION III. Laboratory Personnel

1. Review of Occupational Briefs
    - a. Registered Medical Technologist
    - b. Certified Clinical Laboratory Assistant
    - c. Certified Laboratory Technician
    - d. Cytotechnologist

2. Audio-visual presentation

3. Topics for Discussion
    - a. What routine clinical laboratory tests are performed ?
    - b. Name some advantages and dis-advantages of these careers.
    - c. What equipment is used and precautions observed ?

SESSION IV. **Diagnostic and Therapeutic Procedures Personnel**

1. Review of Occupational Briefs

   a. Certified Radiologic Technologist
   b. Registered Electroencephalograph Technologist
   c. Registered Respiratory Therapy Technician
   d. Registered Respiratory Therapist

2. Audio-visual presentation

3. Topics for Discussion

   a. What equipment is used ?
   b. Why are laws being passed to define "death" ?
   c. Why are strict safety precautions necessary ?

SESSION V. Rehabilitation Personnel

1. Review of Occupational Briefs

   a. Licensed Physical Therapist
   b. Registered Occupational Therapist
   c. Speech Pathologist/Audiologist
   d. Registered Music Therapist
   e. Registered Recreational Therapist
   f. Vocational Rehabilitation Counselor

2. Audio-visual presentation

3. Topics for Discussion

   a. What characteristics do these professions share ?
   b. What major disability areas do they provide services for ?
   c. How do physically disabled and mentally disabled patients differ ? How are they similar ?

SESSION VI. Hospital Support Personnel

1. Review of Occupational Briefs

   a. Medical Records Administrator
   b. Accredited Record Technician
   c. Pharmacist
   d. Registered Dietician

2. Audio-visual presentation

3. Topics for Discussion

   a. What is a "medical record" and why is it important ?
   b. What is the relationship between diet and health ?
   c. Why are reliability and a good moral character important qualities for these professionals ?

SESSION VII. Environmental Health Personnel

1. Review of Occupational Briefs

    a. Bio-medical Engineer
    b. Registered Sanitarian
    c. Industrial Hygiene Technician
    d. Certified Licensed Mortician
    e. Environmental Health Technician

2. Audio-visual presentation

3. Topics for Discussion

    a. What is the relationship between health and the environment ?
    b. What characteristics do these career fields share ?

SESSION VIII. Medical Support Personnel Part I

1. Review of Occupational Briefs

    a. Physician's Assistant
    b. Certified Medical Assistant
    c. Medical Secretary
    d. Certified Operating Room Technician
    e. Emergency Medical Technician

2. Audio-visual presentation

3. Topics for Discussion

    a. How are these professions similar ?
    b. What personal qualities are necessary ?

SESSION IX. Medical Support Personnel Part II

1. Review of Occupational Briefs

    a. Optometric Technician
    b. Orthoptist

2. Audio-visual presentation

3. Topics for Discussion

    a. What professions require mechanical abilities ?
    b. What duties do the optometric technician and the orthoptist share ?

SESSION X. Dental Support Personnel

1. Review of Occupational Briefs

    a. Certified Dental Assistant
    b. Registered Dental Hygienist
    c. Certified Dental Technician

2. Audio-visual presentation

3. Topics for Discussion

    a. What characteristics do these professions share ?
    b. Why is good color perception essential ?
    c. Which profession provides direct patient services ?

SESSION XI. Veterinary Personnel

1. Review of Occupational Briefs

    a. Doctor of Veterinary Medicine
    b. Animal Technician

2. Audio-visual presentation

3. Topics for Discussion

    a. Why is it necessary to like people as well as animals in order to be successful in veterinary medicine ?
    b. What are the major advantages of this career field ?
    c. How do you feel about animal population control ?

SESSION XII. Training Opportunities & Obtaining A Job

1. Topics for Discussion

    a. Where do allied health professionals work ?
    b. What is the advantage of having formal training ?
    c. How do you prepare for an interview ?
    d. Obtaining Financial Assistance

2. Audio-visual presentation

3. Preparing For An Interview

    a. Writing a Resume'
    b. Filling out an Application
    c. The Interview

* Guest lecturers, pending availability replaced audio-visual presentations for selected health professions.

ALLIED HEALTH PROFESSIONS SEMINAR

SESSION I. Orientation to Medical Specialties Part I

(1) Physical Disabilities

(2) General Medicine & Surgery

(3) Geriatrics

(4) Audio-visual Presentation

SESSION II. Orientation to Medical Specialties Part II

(1) Pediatrics

(2) Mental Retardation

(3) Psychiatry

(4) Audio-visual Presentation

SESSION III. Laboratory Personnel

(1) Audio-visual Presentation

(2) Group Discussion

SESSION IV. Diagnostic and Therapeutic Procedures Personnel

(1) Audio-visual Presentation

(2) Group Discussion

SESSION V. Rehabilitation Personnel

(1) Audio-visual Presentation

(2) Group Discussion

SESSION VI. Hospital Support Personnel

(1) Audio-visual Presentation

(2) Group Discussion

SESSION VII. Medical Support Personnel

(1) Audio-visual Presentation

(2) Group Discussion

SESSION VIII. Dental Support Personnel

(1) Audio-visual Presentation

(2) Group Discussion

SESSION IX. Veterinary Support Personnel

(1) Audio-visual Presentation

(2) Group Discussion

SESSION X. Field Trip

Tour of a general hospital with visits to all allied health departments

SESSION XI. Education And Training Programs

(1) College/University

(2) Hospital based

(3) Vocational

(4) Military

SESSION XII. Record Up-Date

(1) Completion of the "Allied Health Professions Evaluation Form" as a post-program test

(2) Enrollment of students for Phase III and the Summer Work Experience Program

(3) Scheduling of students to be tested by the Kuder DD - Occupational Interest Survey

PHASE III : ON-SITE OBSERVATION

Prepare to be flexible in scheduling for this part of the program. The number of students, their career interests, and the availability and location of participating facilities will directly influence the schedule.

SESSION I. Orientation to Medical Facilities

(a) Classification

Ownership
Services rendered
Size and location

(b) Organizational Charts

Hospital
Departmental

(c) Personnel Policies

Job classifications
Pay scales
Fringe benefits
Working conditions

SESSION II. Laboratory Careers

SESSION III. Diagnostic and Therapeutic Procedures Careers

SESSION IV. Rehabilitation Careers

SESSION V. Hospital Support Careers

SESSION VI. Medical Support Careers

SESSION VII. Dental Support Careers

SESSION VIII. Veterinary Careers

COUNSELING SESSIONS

Note: A review of the student's academic record was made prior to scheduling an individual counseling session.

a. Administration of the Kuder DD - Occupational Interest Survey

b. Individual Counseling

VOLUNTEER EXPERIENCE

SESSION I. Orientation to Volunteering

(1) Why do people volunteer their time ?

(2) What do volunteers do ?

(3) What personal qualities do volunteers have ?

SESSION II. Assignments

(1) Participating Facilities

(2) Positions Available

(3) Instructions

REMEDIATION PROGRAM

Note : Preparation for and conduction of this program must be done after the regular school session ends.

a. Review of Students' Records

b. Notification of Eligibility

c. Enrollment of Students

d. Follow-up of Students

SECTION III.
CONCLUSION

III. CONCLUSION

A. SCOPE OF THE PROGRAM

1. Participants

a. Participating Schools

Students enrolled in four senior high schools participated in the program. These schools had a total 1975-76 enrollment of 7,169 regular students, including 1,527 ninth graders, 2,115 tenth graders, 1,891 eleventh graders and 1,636 twelfth graders. Of the total enrollment, 5,764 students (80%)* were black (table 3).

Table 3. Total School Enrollments According to Grade Level and Racial Mixture. **

	Ninth Grade			Tenth Grade			Eleventh Grade			Twelfth Grade		
School	W	B	T	W	B	T	W	B	T	W	B	T
Landry	7	427	432	1	329	330	3	275	278	2	210	212
Walker	0	0	0	437	180	617	468	160	628	487	121	608
Cohen	0	608	608	0	547	547	0	502	502	0	439	439
Carver	0	485	485	0	621	621	0	483	483	0	377	377

B. Participating Students

(1) Grade Level

A total of 179 students enrolled in the Allied Health Professions Counseling Program, including 64 ninth graders, 49 tenth graders, 32 eleventh graders, and 34 twelfth graders (table 4).

---

* All percentages in this report are rounded off to the nearest whole percent.

** Key to Abbreviations : W-white; B-black; T-total

Table 4. Allied Health Professions Counseling Program
Enrollment According to Grade Level and Racial Mixture

	Ninth Grade			Tenth Grade			Eleventh Grade			Twelfth Grade		
School	W	B	T	W	B	T	W	B	T	W	B	T
Landry	0	43	43	0	1	1	0	0	0	0	0	0
Walker	0	0	0	16	8	24	10	8	18	11	4	15
Cohen	0	15	15	0	7	7	0	3	3	0	7	7
Carver	0	6	6	0	17	17	0	11	11	0	12	12

Table 5. Enrollment According to School, Grade Level, and Sex

	Landry			Walker		Cohen		Carver	
Grade Level	M	F		M	F	M	F	M	F
Ninth	7	36		0	0	12	3	1	5
Tenth	0	1		4	20	0	7	2	15
Eleventh	0	0		5	13	1	2	5	6
Twelfth	0	0		4	11	3	4	3	9

(2) Sex

Of the total enrollment, 47 were male, including 20 ninth graders, 6 tenth graders,11 eleventh graders, and 10 twelfth graders; and 132 were female, including 44 ninth graders, 43 tenth graders, 21 eleventh graders, and 24 twelfth graders.

2. Non-Participants

a. Schools

Materials were purchased and disseminated to counselors and librarians assigned to four schools not participating in the program. These materials included publications and audio-visual materials related to allied health careers.

b. Students

Health career information was disseminated to students in one junior high school and one senior high school during "Career Day" observances. Additional information was provided to fourteen (14) students on specific allied health careers at their request.

3. Course Content

a. Career Information

Since inclusion of all allied health careers would have been impossible, only those careers for which training programs were currently available in Louisiana and Mississippi were included. Information on other allied health careers was made available upon the request of participating students.

b. Material Resources

Allied health professional organizations, health and educational institutions, public and private health agencies, and other community resources were contacted for information and materials for inclusion in the course of study. Sources for allied health related publications were researched and contacted during the program development period.

B. EVALUATION

1. Methodology

The program evaluation was made by using the "Allied Health Career Evaluation Form" as a pre-program and as a post-program test. The first test was administered to 150 students during the Orientation Session of Phase I of the Course of Study. Test # 2 was given to 51 students after completion of Phase I. Test # 3 was mailed to 79 students in early June, but to date only 30 responses have been received. Table 6 below shows the total number of students who completed the evaluation forms.

Table 6. Students Completing the "Allied Health Career Evaluation Form"

School	Test #1	Test #2	Test #3
Landry	36	12	2
Walker	48	15	11
Cohen	28	10	6
Carver	38	14	11
TOTAL	150	51	30

2. Scope of Participation

a. Regular Participants

A total of 140 students participants regularly in the program, including 24 ninth graders, 49 tenth graders, 30 eleventh graders, and 37 twelfth graders. Of these participants, 38 were male and 102 female (table 7).

Table 7. Participants Listed According to School, Grade Level and Sex *

Grade Level	Landry			Walker			Cohen			Carver		
	M	F	T	M	F	T	M	F	T	M	F	T
Ninth	2	22	24	0	0	0	12	3	15	1	2	3
Tenth	0	0	0	2	17	19	0	6	6	2	15	17
Eleventh	0	0	0	4	12	16	1	1	2	5	3	8
Twelfth	0	0	0	3	11	14	3	4	7	3	6	9
TOTAL	2	22	24	9	40	49	16	14	30	11	26	37

b. Drop-outs

(1) Grade Level

A total of 39 students who had enrolled in the program dropped out after the first session. A comparison of enrollment and drop-out statistics indicate a drop-out rate of 45% at Landry, 14% at Walker, 7% at Cohen, and 19% at Carver Senior High Schools(Table 8).

Table 8. Drop-outs Listed According to School and Grade Level *

Grade level	Landry			Walker			Cohen			Carver		
	E	P	D	E	P	D	E	P	D	E	P	D
Ninth	44	24	20	0	0	0	15	15	0	6	3	3
Tenth	1	0	1	24	19	5	7	6	1	17	17	0
Eleventh	0	0	0	18	16	2	3	2	1	11	8	3
Twelfth	0	0	0	15	14	1	7	7	0	12	9	3
TOTAL	45	24	21	57	49	8	30	30	2	46	37	9

* Key to Abbreviations : E-enrollment; P-participants D-dropouts

(2) Sex

Of the 39 dropouts, 9 were male and 30 female (table 9). A comparison of the data shown in Table 9 with that in Table 5 shows a male dropout rate of 19% and a female dropout rate of 23%.

Table 9. Drop-outs Listed According to School and Sex

Grade Level	Landry		Walker		Cohen		Carver	
	M	F	M	F	M	F	M	F
Ninth	5	14	0	0	0	0	0	3
Tenth	0	1	2	3	0	1	0	0
Eleventh	0	0	1	1	0	1	0	3
Twelfth	0	0	1	0	0	0	0	3
TOTAL	5	15	4	4	0	2	0	9

3. Results of Program Evaluation Tests

a. Test #1

(1) Career Comparisons

A comparison of the 477 incorrect responses recorded on the pre-program test indicated that the duties of the dental hygienist are best known and those of the occupational therapist are least known. Table 10 lists the correct responses to the ten questions on the evaluation form and shows the incorrect responses according to school.

Table 10. Incorrect Responses on the Allied Health Career Evaluation Form (Test #1) Listed According to School

No.	Correct Response	Landry	Walker	Cohen	Carver	TOTAL
1	Medical Assistant	10	5	8	10	33
2	Respiratory Therapist	20	6	12	13	51
3	Radiologic Technician	19	5	10	15	49
4	Cytotechnologist	31	15	14	23	83
5	Dietetic Technician	24	5	10	10	49
6	Laboratory Technician	14	9	8	7	38
7	Sanitarian	13	4	9	12	38
8	Occupational Therapist	25	23	16	21	85
9	Dental Hygienist	8	3	4	6	21
10	Physical Therapist	14	2	5	9	30
	TOTAL	178	77	96	126	477

(2) School Comparisons

A further study of Table 10 reveals that 37% of the incorrect responses was made by participating students at Landry, 16% at Walker, 20% at Cohen, and 26% at Carver.

b. Post-Program Tests (#2 and #3) *

A comparison was made of data obtained from 62 participants who completed both a pre-program test and a post-program test. Although individual responses on a few questions indicate an increase in incorrect responses, an overall decrease was recorded, including a 3% decrease at Landry, 33% at Walker, 39% at Cohen, and 61% at Carver (table 11).

Table 11. A Comparison of Incorrect Pre-Program and Post-Program Test Responses Listed According to Question Number and School

	Landry			Walker			Cohen			Carver		
No.	Pre	Post	D	Pre	Post	D	Pre	Post	D	Pre	Post	D
1	1	4	+3	1	0	-1	3	3	-0	6	2	-4
2	8	5	-3	1	2	+1	6	3	-3	7	4	-3
3	9	5	-4	3	1	-2	5	4	-1	8	5	-4
4	11	5	-6	5	7	+2	4	3	-1	9	5	-4
5	10	6	-4	0	1	+1	4	2	-2	4	1	-3
6	6	4	-2	5	0	-5	4	4	-0	5	0	-5
7	4	7	+3	1	1	-0	4	2	-2	6	1	-5
8	11	6	-5	10	4	-6	9	4	-5	9	3	-6
9	5	1	-4	0	1	+1	2	1	-1	4	1	-3
10	5	4	-1	1	1	-0	3	1	-2	4	2	-2
Total			-23			-9			-17			-38

* Key to Abbreviations : Pre- Test #1; Post-Test #2 or #3; D-differential; + - an increase; - - a decrease.

(b) Parental Consent

Initially, single trip parental consent forms were used. However, the paperwork involved necessitated the obtaining of parental permission for participants to attend all scheduled field trips.

(c) Attendance

Field trip attendance proved a problem even though students and teachers were sent announcements. Much time and energy were required in scheduling and coordinating this essential part of the program.

CONCLUSIVE STATEMENTS

The introduction of allied health careers to five senior high schools in the New Orleans Public Schools with an average class of 25-40 sophomores, juniors and seniors was an insurmountable task for one counselor and secretary. Although the task seemed very difficult at times, the rewards were great. This program served a need for students, counselors and principals who were unaware of many health careers. Dr. Don Buckner perceived this program and served as the project officer for the first year. Project officers for the remaining two years were Dr. Joseph Kadish and Dr. Anthony Gilkey respectively. The evaluation proves that such a program is needed in every school system in the United States. It is hoped that a study of this report will provide school administrators contemplating such a program with guidelines and solutions to problems that may encountered. It is also hoped that as a result of this exemplary, the Department of Health, Education and Welfare will strongly consider funding any school system or private agency having an interest in promoting health careers in high schools. With the implementation of a National Health Insurance Program, all phases of our health manpower must be increased to maintain a good health delivery system.

For the 1976-77 school year no formal evaluation is available. However pre/post measurements were given to experiemental schools for the 1977-78 school year, but only the post measurement was taken on the control group. Table 12 and 13 reflect mean scores for these two groups respectively, and table 14 gives matched mean scores for both groups.

Table 12 . Pre/Post Mean Scores EXPERIMENTAL SCHOOLS

	Cohen N=18	Carver N=19	McDonogh N=26	Walker N=27	Landry N=11
Pre	7.55	6.47	7.96	9.07	7.27
Post	7.61	7.05	8.92	9.67	9.36

As observed from table 12 there is very little variability between pre/post measurement across all five (5) of the experimental schools. Although not represented in this table, it was observed from the distribution of raw scores there was very little within variability in both the pre-assessment and post-assessment. In addition, one can also observe from table 12, there is very little between variability in the pre/post assessment.

Table 13. Post Mean Scores CONTROL SCHOOLS

Fortier N=18	Abramson N=19	Easton N=25	McDonogh 35 N=11	Kennedy N=27
6.44	7.26	6.63	7.18	7.78

As was mentioned earlier, the pre-assessment was not given to the control schools. It is important to observe from table 13 the closeness of mean score values across all five (5) control schools. Equally important is the close relationship of those scores to the pre-assessment scores of the experimental schools (see table 14).

Table 14. Matched Experimental-Control Mean Scores

Experimental			Control		
Pre		Post	Pre		Post
7.55	Cohen	7.61	-	Fortier	6.44
6.47	Carver	7.05	-	Abramson	7.26
7.96	McDonogh	8.92	-	Easton	6.63
7.27	Landry	9.36	-	McDonogh 35	7.18
9.07	Walker	9.67	-	Kennedy	7.78

One would probably conclude from these results either the participants had sufficient knowledge to respond correctly to at least seven (7) of the ten (10) items on the assessment scale before participating in the program (or having never participated in the program), or they were able to guess seven (7) of the ten (10) items correctly. The latter is highly improbable.

For the 1978-79 school year pre/post assessment scales were given to both experimental and control schools. The assessment instrument was revised and extended to eighteen (18) items. Tables 15 through 19 give the percent correct scores by item for experimental schools and tables 20 through 24 give the same for control schools.

The post-assessment results indicate that control schools did better than the experimental schools. Only Cohen school of the experimental group showed a considerable increase in post -assessment, while Fortier, Abramson and Easton of the control group had similar results. There are several explanations that could be given to interpret the results of these data. However, the unequal N's across all groups could certainly have been the major factor.

Table 15. Pre/Post Percent Correct Scores By Item - Experimental School

W.L. COHEN		
Item	Pre N=38	Post N=30
1	62	72
2	35	10
3	53	67
4	66	73
5	82	70
6	43	29
7	21	13
8	71	90
9	27	53
10	23	20
11	46	48
12	86	93
13	80	82
14	63	67
15	77	77
16	20	23
17	06	03
18	83	86

Table 16. Pre/Post Percent Correct Scores By Item - Experimental School

	L.B. LANDRY	
Item	Pre N=30	Post N=26
1	43	42
2	15	23
3	38	69
4	79	69
5	73	84
6	45	35
7	37	35
8	73	76
9	38	38
10	40	32
11	23	58
12	97	77
13	80	73
14	53	48
15	80	62
16	27	23
17	03	08
18	87	69

Table 17. Pre/Post Percent Correct Scores By Item Experimental School

	JOHN MCDONOGH	
Item	Pre N=54	Post N=44
1	53	27
2	24	26
3	70	52
4	85	86
5	83	80
6	67	36
7	48	52
8	81	68
9	50	50
10	20	37
11	56	39
12	89	84
13	87	70
14	57	61
15	66	64
16	38	27
17	06	07
18	87	74

Table 18. Pre/Post Percent Correct Scores By Item - Experimental School

	G.W. CARVER	
Item	Pre N=38	Post N=27
1	41	48
2	19	19
3	47	46
4	71	58
5	66	62
6	39	54
7	41	38
8	74	78
9	29	50
10	43	31
11	41	24
12	82	79
13	60	60
14	50	56
15	65	64
16	29	32
17	03	04
18	78	75

Table 19. Pre/Post Percent Correct Scores By Item - Experimental School

O. PERRY WALKER		
Item	Pre N=53	Post N=57
1	53	47
2	13	18
3	57	60
4	91	88
5	77	77
6	53	58
7	64	57
8	75	86
9	70	64
10	21	19
11	64	47
12	87	86
13	83	78
14	64	49
15	94	78
16	43	25
17	04	04
18	79	89

Table 20. Pre/Post Percent Correct Scores By Item - Control School

	ALCEE FORTIER	
Item	Pre N=36	Post N=25
1	58	48
2	44	64
3	47	60
4	81	70
5	69	83
6	39	61
7	28	57
8	83	92
9	39	60
10	06	24
11	09	22
12	78	76
13	61	63
14	44	52
15	74	72
16	43	40
17	03	04
18	92	86

Table 21. Pre/Post Percent Correct Scores By Item - Control School

J.F. KENNEDY		
Item	Pre N=84	Post N=58
1	40	30
2	30	19
3	70	56
4	87	80
5	81	88
6	74	61
7	63	75
8	90	93
9	52	66
10	34	33
11	54	58
12	81	86
13	81	78
14	58	57
15	76	70
16	75	36
17	02	04
18	92	91

Table 22. Pre/Post Percent Correct Scores By Item - Control School

MC DONOGH 35		
Item	Pre N=43	Post N=35
1	44	33
2	23	30
3	63	57
4	88	93
5	91	87
6	58	53
7	47	43
8	98	93
9	56	53
10	19	30
11	67	53
12	77	73
13	84	63
14	52	57
15	77	72
16	42	52
17	00	00
18	74	72

Table 23. Pre/Post Percent Correct Scores By Item - Control School

	WARREN EASTON	
Item	Pre N=76	Post N=55
1	42	56
2	25	15
3	66	60
4	82	75
5	77	82
6	64	44
7	38	44
8	87	89
9	50	58
10	28	33
11	47	54
12	17	75
13	71	72
14	56	58
15	71	65
16	46	37
17	05	00
18	82	78

Table 24. Pre/Post Percent Correct Scores By Item - Control School

M. ABRAMSON

Item	Pre N=31	Post N=26
1	55	48
2	10	23
3	50	46
4	90	92
5	84	77
6	40	31
7	47	46
8	77	85
9	35	42
10	24	36
11	45	38
12	71	77
13	73	77
14	32	44
15	71	65
16	07	31
17	00	04
18	83	69

At the end of the 1978-79 school year a questionnaire (see Appendix E) was given to the counselor in each experimental school. Their response to item three (3) of the questionnaire was especially interesting because, in essence, all five (5) counselors responded similarly. The responses for item three (3) are as follows :

1. "Yes"
2. "Publicize and emphasize benefits."
3. "When students are given correct and realistic information about health related careers particularly about the training, time and cost required for their career choice, then the students hopefully will realize what high school preparation is needed."
4. "By helping them to see the advantages health programs and careers offer."
5. "We should inform students of the requirements and preparation course-work necessary for entering specific health careers."

In all but one case (number one), all of the counselors seem to feel that the dissemination of information on allied health careers should be sufficient to motivate students in the direction of allied health fields as a profession. Taking into account that the greater majority of the students participating in the program were from disadvantaged backgrounds, dissemination of information on careers is a necessary condition but hardly a sufficient condition to motivate disadvantaged youth to pursue careers in any field.

An attitude survey was also given to students in the experimental schools at the end of this school session. The results of this survey (see Appendix G) were not suitable for any worthwhile analysis. In the greater majority of cases, students simply responded to each item in the "strongly agree" column.

In June of 1978 a telephone survey (see Appendix F) was conducted to determine program impact since the 1975-76 pilot project. Of the eighty-eight (88) total contacts made, seventy (70) or 79.5% were with former students. The remaining contacts were with either parents or relatives. The results of the survey are as follows :

1975-76 Experimental Schools

Twenty-six (26) contacts were made. Eleven (11) of the students were enrolled in either a college or university. Of the eleven (11) students, one (1) was enrolled in pharmacy, two (2) in medical technology, one (1) in x-ray technology, and two (2) in nursing.

Control Schools

Twenty-five (25) contacts were made. Eleven (11) students were enrolled in a college or university but not any of the eleven (11) were pursuing an allied health field.

1976-77 Experimental Schools

Three (3) contacts were made. Only one (1) student was enrolled in college but not pursuing a degree in an allied health field. The other two(2) expressed intentions of enrolling in an allied health field in the future.

Control Schools

Twelve (12) contacts were made. One (1) student was enrolled in a university but not in an allied health field. One(1) student intended to pursue a degree in nursing.

1977-78 Experimental Schools

Thirteen (13) contacts were made. All thirteen (13) students had intentions of receiving further academic training while four (4) stated they would pursue a career in nursing and four (4) would be seeking a career in medical technology.

Control Schools

Nine (9) contacts were made. Not any of the students had intentions of receiving further academic training.

EVALUATION REMARKS

The Allied Health Professions Counseling Program was designed around eight (8) objectives. Throughout the tenure of the program all eight (8) objectives were met, but the achievement of these objectives have no relationship to the measuring of program effects.

The data analysis presented is an over-simplification of an analysis of the program. The reality of the educational settings where the program was implemented was never really described. Attempts to document effects of this program by pre/post measuring instruments in isolation from an adequate description of environmental factors influencing the program ignores relevant interpretations and institutional constraints that would have more fully characterized the program.

There is a complexity about the educational process. It would have been helpful if there had been an on-going analysis of each experimental and control group setting to clarify processes in each school. In fact, the evaluation of this program should have concentrated on "process" within each learning environment (school) rather than outcomes derived from the particular specifications of the program instructional model. Familiarity with the day-to-day reality of each school would have clarified processes and aided in interpretations of why the many problems were encountered.

C. PROBLEMS ENCOUNTERED

1. Selection and Implementation

a. Participant Selection

(1) School Selection

The only problem encountered was the choice of selection methodology. Of the eighteen senior high schools in the Orleans Parish School System, four were eliminated during the selection process because of their specialized programming. Two schools were not selected because assigned teachers had participated in an allied health counselor training workshop sponsored by the Division of Associated Health Professions, Bureau of Health Manpower, Department of Health,Education and Welfare, Washington,D.C.; and were believed to be providing allied health career related information to students. Of the remaining schools, two were selected from westbank locations and two from eastbank locations, to allow a possible comparison of demographical factors, during the follow-up evaluation.

(2) Implementation

(a) Methodology

No problems were encountered in the selection of the implementation method since each participating school was allowed to choose the procedure most feasible in that school.

(b) Procedure

(aa) Staffing

The Allied Health Professions Counseling Program was contracted to begin June 27, 1975, but an allied health counselor was not employed until September 22,1975. A full-time secretary was hired in October,1975, to complete the program staff.

(bb) Scheduling

Since the academic year had begun August 28,1975, the implementation of the program was delayed until the second quinmester. Although the projected starting date allowed only six weeks for the counselor to develop the program content and obtain materials, the first class was scheduled for November 5,1975. An additonal week's delay resulted from the failure of guidance counselors in two of the four schools to provide a list of participants as scheduled. This delay was attributed to the principals' failure to relieve the guidance counselors of any routine duties while they assisted in implementing the Allied Health Professions Counseling Program.

(3) Student Selection

(a) No problems were encountered during the initial selection process at three schools. However, since tenth,eleventh and twelfth grade students at Landry were found to be eligible for a health occupations course, the program was limited initially to ninth graders.

(b) Of the two selection methods used(I-1,2), selection on the basis of interest resulted in better participation as indicated by the 45% drop-out rate at Landry (III-22,Table 8).

(c) Adherence to the specified criteria, a "C" average in science and math (A-1,2) was impossible since student records were not readily available (III,32). Therefore, after the first term, any interested student was allowed to participate with permission of his guidance counselor.

2. Class Scheduling

a. Scheduling Procedures

(1) The one hour per week lecture requirement presented a major scheduling problem since classes were normally scheduled on a daily basis. Discussion with school principals resulted in a rotating-period schedule which would allow students to miss a regulafly scheduled class once every six weeks.

(2) Attendance problems resulted from the scheduling format even though the classes met on the same day each week. The following steps were taken to eliminate the attendance problem:

   (a) Students were given individual class schedules

   (b) Announcements were made on the public address system during homeroom period

   (c) Student reminder notices were sent to teachers

   (d) Written excuses were sent to teachers for class absence

(3) The elimination of 1st and 4th period classes in some schools resulted from the following variations encountered in regular school schedules:

   (a) The 1st period met before homeroom period at three schools

   (b) Three schools had two 4th period lunches

   (c) Senior students at two schools participated in an early release program to report for work assignments

b. Size

Problems in class size were encountered at one school (Landry) because of the high initial drop-out rate and the lack of participation during the second term. Although the program had been limited to ninth graders at Landry during the initial phase, announcements were sent to all teachers in all schools during the second term. However no tenth, eleventh or twelfth grade students participated at Landry(III-21,Table 7). The only explanation for this lack of participation was the teachers' failure to provide counselors with a list of interested students despite several reminders.

3. Classroom and Counseling Space

a. Classroom Space

Obtaining classroom space for a one hour per week lecture was difficult due to over-crowded conditions at three of the four schools. One school scheduled the library classroom regularly. A second school provided a classroom, but difficulties were encountered in opening the classroom,turning on lights, and setting up equipment. A third school provided space in the library but noise and poor lighting made this area inadequate. Space in the fourth school was obtained on a day-by-day basis and was often inadequate.

b. Counseling Space

Only one school provided counseling space for individual conferences. Therefore, the individual counseling phase of the program was inadequate. Although no viable solution was found, attempts to alleviate the problem resulted in increased student contact by mail and telephone.

4. Control Group Selection

a. Size

Control group size was based upon the number of students initially enrolled in the program rather than the number of participants, since elimination of non - participants might invalidate the results of the study.

b. Selection Methodology

Control groups were originally selected from the participating schools. However, after the program was refunded for three years, it was necessary to pair participating schools with other schools within the system and select control group members from their enrollment. This selection method eliminated the possibility of control group students enrolling in the program.

(2) Audio-Visual Materials

(a) Loan

Difficulty was encountered in obtaining appropiate audio-visual materials throughout the program's operation. Although films were available from health and professional organizations, scheduling problems were encountered because of commitments made to other borrowers and time limitations placed on loaned materials.

(b) Purchase

Commercial films and filmstrip/cassette presentations were purchases in an attempt to solve the problem of audio -visual material availability. However, these presentations were too general. After attending a media workshop, the counselor purchased the necessary equipment and supplies and began the production of presentations more specific to the program's needs.

b. Program Operation

(1) Materials

The major problems encountered during the program's operation resulted from its experimental nature. The greatest difficulty encountered was that of staying one step ahead of the program's operation. Much time was spent in the research and preparation of current occupational briefs, in the finding of sources for audio-visual materials and an appropiate authoritative pre-counseling test.

(2) Student Records

Problems were encountered in all schools concerning the availability of student records. In each school the guidance counselor is responsible for records within a specific alphabetical group. No consistent record-keeping system was used. Therefore, to review students' records, the allied health counselor had to have each student's name, grade level, homeroom teacher's and guidance counselor's names and hope the records were current. An appointment then had to be made with each of the eighteen counselors.

(3) Audio-visual Equipment

In addition to the availability of adequate classroom space, the availability of audio-visual materials and equipment proved the most recurrent problem. Since the effectiveness of the program was largely dependent on the use of audio-visual materials, the purchase of equipment for the counselor's individual use was considered essential.

(4) Field Trips

(a) Transportation

The scheduling of off-grounds field trips resulted in the need for safe but inexpensive transportation, and for the obtaining of parental permission for student participation. Although large school buses and public transportation were available, it proved more efficient to use a rented or insured private automobile to transport individual students and small groups. The legal aspects of using such transportation is a factor to con sider carefully.

IV. RECOMMENDATIONS

A. STATEMENT OF PURPOSE

After an evaluation of the development, implementation, and one year operation of the Orleans Parish Allied Health Professions Counseling Program, the following recommendations are made to assist school administrators interested in establishing such a program in their present school system during the initial phase of incorporation.

B. RECOMMENDATIONS

1. A sufficient number of health facilities and educational programs should be available locally to provide a variety of on-site experiences and role models.
2. The counselor should be an allied health practitioner with hospital-related experience, preferably in direct patient care. Previous teaching and/or counseling experience would be helpful but is not essential.
3. Central office space, secretarial services,telephone services, and transportation expenses should be provided for the counselor.
4. The counselor's schedule during the initial phase of the program should allow sufficient time for administrative duties, public relations, and research purposes.
5. The counselor should not be assigned any unrelated duties and should function as a resource person and not as a school faculty member.
6. A contact person, preferably a school guidance counselor, should be designated by each participating school principal to assist the allied health counselor during the implementation period and to coordinate the program with other existing programs.

7. An adjustment should be made in the contact persons regular schedule to allow sufficient time for this additional duty.

8. Adequate space should be provided at each participating school on a regular basis for classroom and counseling purposes.

9. Audio-visual materials and equipment- should be purchases for or assigned to the counselor on a regularly scheduled basis.

10. Classes should be scheduled weekly during school hours on a rotating period basis. Provisions should be made for routinely excusing students from daily scheduled classes.

11. Class size should be limited to a maximum of 25 students.

12. The prime consideration for student selection should be their degree of interest in a health -related career.

13. The school faculty, especially guidance counselors, science and mathematics teachers, and librarians, should ne aware of the program and encouraged to participate.

14. School libraries should be provided with current allied health-related reference and audio-visual materials.

15. Provisions should be made for safely transporting individual students and small groups during field trips to local health and educational facilities.

The implementation of the model was carried through and all eight (8) objectives were met. However, if there was any significant positive impact from the program, it is indeed, difficult to measure because of insufficient data collected and the nature of the problems encountered.

The problems encountered are as follows :

1. Student attendance was irregular.
2. Many students did not have a genuine interest in an allied health career.
3. Students lacked the necessary preparation required to profit from resources provided.
4. Schools were inconsistent in assigning rooms for meeting.
5. Counselors were lax in distributing materials to students.
6. School assemblies were scheduled without notifying the allied health counselor.
7. Students lacked the necessary funds for college entrance examinations fees and application fees.
8. Teachers did not permit students to leave classes for allied health meetings.

One can easily discern that the major source of problem areas stemmed from a lack of committment from teachers and counselors in the schools selected, and from the academic preparation, attitudes, and interest of students participating in the program.

As possible solutions to these problems, the following recommendations are offered;

1. Inservice training with stipends, be provided for teachers to make them aware of the many career options for students. The training would also include the many allied health careers, and how to incorporate lectures and discussions on career choices in academic presentations.
2. More careful screening of students. Interest inventory, aptitude measures, and achievement scores should be used as data elements in the selection process.

3. After selection, students should be grouped according to interest within allied health fields.
4. Students should maintain a "C" average to remain in the program.
5. Students with excessive unexcused absences and behavior problems should be dropped from the roll.
6. Students should have class discussion on a particular career prior to visits from resource speakers.
7. Students should not be allowed to enter the program after an established closing date.
8. Time should be established for required allied health counseling sessions.
9. Post measurement should be administered around April 1st.
10. Class size should be limited to thirty (30) students.
* 11. Because of the scope of the program, two additional staff counselors should be hired.
* 12. Parental awareness of allied health careers should be encouraged by means of workshops.
* 13. The program should maintain a full-time secretary.
* 14. The counselors should attend professional meetings locally and nationwide.

* These recommendations are especially crucial for program implementation.

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APPENDIX A

ILLUSTRATIVE MATERIALS

DATE ____________________ NAME ______________________________

GRADE __________ SCHOOL ____________________________

ALLIED HEALTH CAREER EVALUATION FORM

Please underline the correct response.

1. A health process that reveals that a person's health needs are being met is identified as,

   a. diagnosing
   b. examining
   c. treating
   d. prescribing

2. A health care process that involves identifying the method to treat a patient's health care need is considered to be ,

   a. rehabilitating
   b. diagnosing
   c. educating
   d. prescribing

3. The study of the eye's functions and disorders is the science of ,

   a. ophthalmology
   b. orthodontics
   c. audiology
   d. hematology

4. The rehabilitation of persons with injuries of the muscles, joints, nerves or bones .

   a. physical therapy
   b. occupational therapy
   c. podiatry
   d. recreational therapy

5. The administration of oxygen for breathing purposes is identified as ,

   a. environmental health
   b. inhalation therapy
   c. cytotechnology
   d. histology

6. The study of diseases and trauma to bones and joints is the medical practice of ,

   a. orthodontics
   b. orthopedics
   c. orthotics
   d. proctology

7. The study of the diseases of the blood and of blood-forming organs is the science of ,

   a. pathology
   b. cytotechnology
   c. hematology
   d. medical technology

8. The processes by which blood is collected, processed and labeled, stored and distributed for use when needed is identified as,

   a. serology
   b. blood banking
   c. blood count
   d. virology

9. The allied health worker whose job it is to operate a machine used to help diagnose heart disease and record the progress of patients with heart diseases and conditions is described as a/an ,

   a. EKG technician
   b. EEG technician
   c. X-Ray technician
   d. cytotechnologist

10. The allied health worker whose job it is to safeguard our environment by uprooting hazards and controlling those that cannot be completaly eliminated is described as a,

a. biomedical engineer c. health economist
b. sanitary engineer d. radiological health specialist

11. The interpretation of x-rays which may demonstrate disorders of the bones or soft tissues is the medical practice of,

a. audiology c. bio-chemistry
b. hematology d. radiology

12. The cleaning and polishing of teeth, the removal of stains and deposits from teeth and, oral hygiene discussions encompass the duties of this allied health worker.

a. dental secretary c. dental hygienist
b. pedodontist d. orthodontist

13. MT(ASCP) is the abbreviation for the :

a. laboratory assistant c. specialist in blood bank technology
b. certified medical technologist d. cytotechnologist

14. ASCP is the abbreviation for the :

a. Association of Clinical Personnel
b. American Society of Clinical Pathologists
c. American Society for Consumer Patents
d. Association of Community Physicians

15. MT-(ASCP) SBB; is the abbreviation for the :

a. specialist in blood bank technology c. operating room technician
b. medical assistant d. optometric technician

16. R.T.-(AART) is the abbreviation for the :

a. inhalation therapist c. orthoptist
b. certified radiologic technologist d. recreational therapist

17. RRA is the abbreviation for the :

a. accredited record technician c. radiologic technician
b. registered respiratory assistant d. medical record administrator

18. CORT is the abbreviation for the :

a. occupational therapist c. certified operating room technician
b. certified respiratory therapy technician d. accredited record technician

ALLIED HEALTH PROFESSIONS COUNSELING PROGRAM

SURVEY COURSE

SESSION I. ORIENTATION
Oct.10-14

1. Brief description of the Orleans Parish Allied Health Professions Counseling Program
    - a. Purpose
    - b. Scope
    - c. Content
2. Completion of Questionnaires
    - a. Personal Data : "Student Information Card"
    - b. "Allied Health Career Evaluation Form"

SESSION II. INTRODUCTION TO ALLIED HEALTH
Oct.24-28

1. General Lecture
    - a. Definition of "allied health"
    - b. Need for allied health professionals
    - c. Occupational outlook for health professionals
2. Audio-visual presentation
    - a. Employment of allied health workers
    - b. General discussion of personal requirements essential for becoming a "good" allied health worker.

SESSION III. LABORATORY PERSONNEL
Oct.31-Nov.4

1. Review of Occupational Briefs
    - a. Registered Medical Technologist
    - b. Certified Clinical Laboratory Assistant
    - c. Certified Laboratory Technician
    - d. Cytotechnologist
2. Audio-visual presentation
3. Topics for Discussion
    - a. What routine clinical laboratory tests are performed ?
    - b. Name some advantages and dis-advantages of these careers.
    - c. What equipment is used and precautions observed ?

SESSION IV.
Nov.7-11

DIAGNOSTIC AND THERAPEUTIC PROCEDURES PERSONNEL

1. Review of Occupational Briefs
    - a. Certified Radiologic Technologist
    - b. Registered Electroencephalograph Technologist
    - c. Registered Respiratory Therapist
    - d. Certified Respiratory Therapy Technician
2. Audio-visual presentation
3. Topics for Discussion
    - a. What equipment is used ?
    - b. Why are laws being passed to define "death" ?
    - c. Why are strict safety precautions necessary ?

SESSION V.
Nov.14-18

REHABILITATION PERSONNEL

1. Review of Occupational Briefs
    - a. Licensed Physical Therapist
    - b. Registered Occupational Therapist
    - c. Speech Pathologist/ Audiologist
    - d. Registered Therapist
2. Audio-visual presentation
3. Topics for Discussion
    - a. What characteristics do these professions share ?
    - b. What major disability areas do they provide services for ?
    - c. How do physically disabled and mentally disabled patients differ? How are they similar ?

SESSION VI.
Nov.28-Dec.2

HOSPITAL SUPPORT PERSONNEL

1. Review of Occupational Briefs
    - a. Medical Records Administrator
    - b. Accredited Record Technician
    - c. Pharmacist
    - d. Registered Dietician
2. Audio-visual presentation
3. Topics for Discussion
    - a. What is a "medical record" and why is it important ?
    - b. What is the relationship between diet and health ?
    - c. Why are reliability and a good moral character important personal qualities for these professionals ?

SESSION VII. **ENVIRONMENTAL HEALTH PERSONNEL**
Dec.5-9

1. Review of Occupational Briefs
    - a. Bio-medical Engineer
    - b. Registered Sanitarian
    - c. Industrial Hygiene Technician
    - d. Certified Licensed Mortician
    - e. Environmental Health Technician
2. Audio-visual presentation
3. Topics for Discussion
    - a. What is the relationship between health and the environment ?
    - b. What characteristics do these career fields share ?

SESSION VII. **MEDICAL SUPPORT PERSONNEL PART I**
Dec.12-16

1. Review of Occupational Briefs
    - a. Physician's Assistant
    - b. Certified Medical Assistant
    - c. Medical Secretary
    - d. Certified Operating Room Technician
2. Audio-visual presentation
3. Topics for Discussion
    - a. How are these professions similar ?
    - b. What personal qualities are necessary ?

SESSION IX. **MEDICAL SUPPORT PERSONNEL PART II**
Dec.19-21

1. Review of Occupational Briefs
    - a. Optometric Technician
    - b. Orthoptist
2. Audio-visual presentation
3. Topics for Discussion
    - a. What professions require mechanical abilities ?
    - b. What duties do the optometric technician and the orthoptist share ?

SESSION X. **DENTAL SUPPORT PERSONNEL**
Jan.9-13

1. Review of Occupational Briefs
   - a. Certified Dental Assistant
   - b. Registered Dental Hygienist
   - c. Certified Dental Rechnician
2. Audio-visual presentation
3. Topics for Discussion
   - a. What characteristics do these professions share ?
   - b. Why is good color perception essential ?
   - c. Which profession provides direct patient services ?

SESSION XI. VETERINARY PERSONNEL
Jan.16-20

1. Review of Occupational Briefs
   - a. Doctor of Veterinary Medicine
   - b. Animal Technician
2. Audio-visual presentation
3. Topics for Discussion
   - a. Why is it necessary to like people as well as animals in order to be successful in veterinary medicine ?
   - b. What are the major advantages of this career field ?
   - c. How do you feel about animal population control ?

SESSION XII. TRAINING OPPORTUNITIES & OBTAINING A JOB
Jan.23-27

1. Topics for Discussion
   - a. Where do allied health professionals work ?
   - b. What is the advantage of having formal training ?
   - c. How do you prepare for an interview ?
   - d. Obtaining student financial assistance
2. Audio-visual presentation
3. Preparing for an interview
   - a. Writing a resume'
   - b. Filling out an application
   - c. The interview

!!!!!!!! ATTENTION !!!!!!!!

S-T-U-D-E-N-T-S

Are you interested in giving service and care to the sick and injured ? Then the Allied Health Professions Counseling Program seeks YOU !!!

HERE'S THE SCOOP ....

Any student with a "C" average in mathematics and science who would like to learn about career opportunities in Allied Health is encouraged to enroll.

AHPCP will provide one hour of class instruction weekly; no Extra credit, no Tests, no Grades ---- But... Films,Slides, Group discussions, Visiting lecturers and Field trips will be featured during the school year by Mr. Jim Wilson,Allied Health Professions Counseler.

ALLIED HEALTH PROFESSIONS INCLUDE :

DENTAL HYGIENE
DENTAL LABORATORY TECHNOLOGY
DIETETICS
INHALATION THERAPY
MEDICAL LABORATORY TECHNOLOGY
PROSTHETICS
MUSIC THERAPY
ORTHOTICS
EEG TECHNOLOGY
PHARMACY
OCCUPATIONAL THERAPY
CYTOTECHNOLOGY
VETERINARY SCIENCE
ORTHOPTICS
MEDICAL RECORDS LIBRARY
SPEECH PATHOLOGY
PHYSICAL THERAPY
X-RAY TECHNOLOGY

* * *

Physicians, Nurses and Dentists need help from many of these professional and technical health workers. More important - PATIENTS NEED THESE WORKERS ! YOU can be one of these workers if you start preparing NOW for an Allied Health Profession.

All it takes is completion of your high school courses in science and mathematics and specialized training (6 months,or 12 months, or 2-6 years) in the career of your choice.

IF YOU ARE INTERESTED IN AHPCP - CONTACT
YOUR SCHOOL GUIDANCE COUNSELOR IMMEDIATELY !!!!!!!

AHPCP
1456 Gardena Dr.
288-7374

* * *

STUDENT INFORMATION CARD

NAME ________________ STUDENT I.D.# ________________ DATE ________

ADDRESS ________________ SCHOOL ________________ GRADE ________

PARENT OR GUARDIAN ________________ TELEPHONE ________________

AGE ______ HEIGHT ______ WEIGHT ______ RACE ______ SEX ________

FAVORITE SCHOOL SUBJECTS: ________________________________

HOBBIES, TALENTS, SPECIAL INTERESTS: ________________________

________________________________ HOMEROOM ________________

SPORTS, CLUBS, AWARDS: ________________________________

JOBS (Past or Present) ________________________________

****

(Please check one or more.)

1. I am interested in the following allied health career fields: ___medical ___dental ___administrative ___laboratory ___rehabilitative therapy ___social service ___food service ___environmental ___mechanical, other ________________

2. If given a choice, I would prefer to:
   - ____ start work after high school graduation.
   - ____ take a vocational course for one year.
   - ____ go to junior college.
   - ____ go to senior college.
   - ____ go to graduate school.

(OVER)

(TO BE FILLED IN BY ALLIED HEALTH COUNSELOR)

Attendance ____________ Participation ____________ Appearance ____________

Comments:

COURSEWORK:	Course	Grade	Course	Grade

COUNSELING: Date:
Recommendation:

Date:
Recommendation:

CAREER FIELD CHOSEN ________________________

ALLIED HEALTH PROFESSIONS
COUNSELING PROGRAM

s a participant in the Allied Health
ogram COUNSELING SESSIONS
t L.B.Landry Senior High School.

James D. Wilson Tel.#288-7374
Counselor

SCHEDULE

Jan. 10 -- 3rd. Feb. 14 -- 3rd.
an. 17 -- 5th. Feb. 21 -- 6th.
an. 24 -- 1st.

ALLIED HEALTH PROFESSIONS
COUNSELING PROGRAM

is a participant in the Allied Health
Program COUNSELING SESSIONS
at O.Perry Walker Senior High School.

James D. Wilson Tel.#288-7374
Counselor

SCHEDULE

Jan. 10 -- 5th. Feb. 14 -- 6th.
Jan. 17 -- 3rd. Feb. 21 -- 3rd.
Jan. 24 -- 2nd.

ALLIED HEALTH PROFESSIONS
COUNSELING PROGRAM

is a participant in the Allied Health
Program COUNSELING SESSIONS
t Walter L. Cohen Senior High School.

James D. Wilson Tel.#288-7374
Counselor

SCHEDULE

Jan. 11 -- 3rd. Feb. 15 -- 3rd.
Jan. 18 -- 5th. Feb. 22 -- 5th.
Jan. 25 -- 2nd.

ALLIED HEALTH PROFESSIONS
COUNSELING PROGRAM

is a participant in the Allied Health
Program COUNSELING SESSIONS
at G.W. Carver Senior High School.

James D. Wilson Tel.#288-7374
Counselor

SCHEDULE

Jan. 12 -- 3rd. Feb. 8 -- 5th.
Jan. 19 -- 2nd. Feb.16 -- 2nd.
Jan. 26 -- 1st. Feb.23 -- 3rd.

ALLIED HEALTH PROFESSIONS
COUNSELING PROGRAM

____
is a participant in the Allied Health
Program COUNSELING SESSIONS
at John McDonogh Senior High School.

James D. Wilson Tel.#288-7374
Counselor

SCHEDULE

Jan. 16 -- 2nd.
Jan. 23 -- 1st.
Feb. 13 -- 3rd.
Feb. 20 -- 5th.
Feb. 27 -- 2nd.
Mar. 6 — 3rd.
Mar.20 — 6th.
Apr. 3 — 2nd.
Apr.10 -- 3rd.

Announcing

A Pharmacy Workshop
for High School Students
Xavier University
College of Pharmacy

Registration Saturday, Jan. 21 (9:00)

Workshop	Sessions
Saturday, Jan. 28	9:30 - 1:00
Saturday, Feb. 18	9:30 - 1:00
Saturday, Feb. 25	9:30 - 1:00
Saturday, Mar. 4	9:30 - 1:00

Note:

Students not in attendance on the first day (Jan. 21) will not be allowed to participate. Sessions will usually last three hours.

ALLIED HEALTH PROFESSIONS

January 3, 1978

Dear Student,

The month of January marks the beginning of the second phase of our counseling program. It is sincerely hoped that much has been gained from our sessions thus far. Most important, I hope that you have been enlightened and, that more positive attitudes have been developed as the result of our efforts.

We have endeavored to provide you with an in depth study of various health professions. Emphasis has been placed on educational requirements, training institutions,employment prospects and salary ranges. I believe knowledge of the above is vital when considering any career.

During this semester we will conclude our seminars on the health professions; and begin on-site observations in local health facilities and training institutions. Time will also be allotted if desired, for individual counseling sessions.

Below, I have listed a number of the health professions discussed. Please indicate your choice(s). This will give me an idea of the field trip sites to set up. Detach the bottom portion with your name,grade, and school, and return to me at the end of today's session.

I would like you to remember that these field trips are to be learning experiences (not social activities). Only those students who are enrolled in AHPCP and have attended REGULARLY will be eligible to participate. Please return the attached consent slip on next week.

Sincerely,

Jim Wilson, Counselor

NAME ______________________________ SCHOOL ______________________

GRADE ________________ HOMEROOM ___________

PHARMACIST ____
MEDICAL TECHNOLOGIST ____
RESPIRATORY THERAPIST ____
MEDICAL RECORDS ADMINISTRATOR ____
OCCUPATIONAL THERAPIST

X-RAY TECHNICIAN _____
DENTAL HYGIENIST _____
ENVIRONMENTALIST _____
PHYSICAL THERAPIST ____

ALLIED HEALTH PROFESSIONS COUNSELING PROGRAM

____
DATE

Parents :

______________________________ is participating in the Allied Health Professions Counseling Program at _______________ Senior High School. During ____________________, the students will take short field trips to local hospitals and/or health facilities. Please sign below Only if you grant permission for the above named student to attend these trips without additional written notice.

An insured rental or private automobile will be used when trips are scheduled with individuals or small groups.

A schedule of field trips will be given to each student and the school principal will be notified as to the date, time, and destination of each field trip.

____
James D. Wilson, Counselor
Allied Health Professions

____
Parent or Guardian's Signature

Dear Student:

A "Volunteer Work Experience" is being offered to interested students during June and July. The program is designed to introduce students to actual work situations in the career field of their choice. NO ACADEMIC CREDIT will be given. However, public transportation costs will be paid. Some institutions may provide free meals.

To be eligible, a student must: (a) be 15 years of age or older, (b) be a regular participant in the Allied Health Program, and (c) have a genuine interest in training for an allied health profession after high school.

If you are interested in this program and think you are eligible, please indicate a 1st and 2nd choice from the following professions:

Name______________________________ Career Choice #

School____________________________ 1st (_____) 2nd(_____)

1. Certified Medical Technologist
2. Certified Laboratory Technician
3. Cytotechnologist
4. Specialist in Blood Banking
5. Registered Radiologic Tech.
6. Registered Respiratory Therapist/Tech.
7. Registered Electroencephalograph Tech.
8. Registered Physical Therapist
9. Registered Occupational Therapist
10. Certified Occupational Therapist Asst.
11. Speech Pathologist/Audiologist
12. Recreational Therapist
13. Registered Dental Hygienist
14. Registered Music Therapist
15. Certified Dental Laboratory Tech.
16. Doctor of Veterinary Medicine
17. Animal Technician
18. Registered Pharmacist
19. Registered Dietitian
20. Dietetic Technician
21. Medical Records Administrator
22. Accredited Record Tech.
23. Sanitarian
24. Biomedical Engineer
25. Certified Prosthetist and Orthotist
26. Certified Operation Room Tech.

James D. Wilson

James Wilson, Counselor

ALLIED HEALTH PROFESSIONS COUNSELING PROGRAM

May 15, 1978

Dear Parents :

As part of the Allied Health Program, I am able to offer free summer school tuition to students who had difficulty in science or mathematics during the regular school session. Since a good science and mathematics background is essential in preparing for a health -related career, you should urge your child to seriously consider taking advantage of this aspect of our program.

Participation allows your child to enroll in either science or math, preferably the same course in which he had difficulty. Although he may have "passed" the course with a "D", repetition of the course should give him the skills necessary for more advanced study next fall.

This service is provided for students wh have participated in the Allied Health Professions Counseling Program exclusively. Any student who withdraws or drops out after the session has begun, MUST RE-IMBURSE the Allied Health Program for the tuition and bus tokens provided.

I will be available to answer questions throughout the summer. My office is located at Bienville School, 1456 Gardena Drive,telephone number 288-7374. If I am not available, please leave your name and telephone number and I will return your call.

Enclosed is a letter that must be presented to the principal of the school to which your child plans to attend summer school.

JDW/wp

Sincerely,

James D. Wilson, Counselor
Allied Health Professions

STUDENT: Present this form during summer school registration.

ALLIED HEALTH PROFESSIONS COUNSELING PROGRAM

Dear ____________________, Principal

Concerning: ______________________, a student at

____________________Senior High School.

The above named student is eligible for free summer school tuition through the Allied Health Professions Counseling Program. This student can register for science and/or math courses under this program.

Please register this student and bill the charges to:

Allied Health Professions Counseling Program
Charge Code #7052-809-00-937-307

Should you have any questions concerning this request, please contact:

Mr. James D. Wilson
1456 Gardena Drive
288-7374

or

Mr. John O'Dowd, Director of Career Education
4100 Touro Street
288-6561 ext. 333

James D. Wilson
James D. Wilson , Counselor

ALLIED HEALTH PROFESSIONS COUNSELING PROGRAM

School

Date

Remediation List For Math And Science

		QUINMESTER							
		MATH				SCIENCE			
STUDENT	GRADE	1	2	3	4	1	2	3	4

SCHOOL ____________________ GROUP #____ DATE __________

ALLIED HEALTH PROFESSIONS COUNSELING PROGRAM

PARTICIPANTS

STUDENT NUMBER	NAME	ADDRESS	RACE-SEX	GRADE	PHONE NUMBER	BIRTH DATE	HOME ROOM

ALLIED HEALTH PROFESSIONS COUNSELING PROGRAM

July 17, 1978

1456 Gardena Drive
New Orleans, Louisiana

Parents :

A picnic is being planned for Allied Health participants on Thursday, July 27, 1978. Please sign below if you grant permission for your child to attend. Print student's name in the space provided.

____
Student's Name

____
Parent or Guardian's Signature

Sincerely,
James D. Wilson
James D. Wilson,Counselor
Allied Health Professions

ALLIED HEALTH PROFESSIONS COUNSELING PROGRAM

July 17, 1978

1456 Gardena Drive
New Orleans, Louisiana

Parents :

A picnic is being planned for Allied Health participants on Thursday, July 27, 1978. Please sign below if you grant permission for your child to attend. Print student's name in the space provided.

____
Student's Name

____
Parent or Guardian's Signature

Sincerely
James D. Wilson
James D. Wilson,Counselor
Allied Health Professions

Certificate of Appreciation

NEW ORLEANS PUBLIC SCHOOLS

DEPARTMENT
OF CAREER EDUCATION

Allied Health Careers Program

AWARDED TO

____

In recognition for your expertise and outstanding service toward helping to make the program a worthwhile and meaningful experience for our students.

Given this ______________ day of ______________________ nineteen hundred and __________

John E. O'Dowd Jr.
JOHN E. O'DOWD, PROJECT DIRECTOR

James D. Wilson
JAMES D. WILSON, COUNSELOR

Certificate of Award

Allied Health Professions

This Certifies That

____

Has satisfactorily completed the work in
the Allied Health Professions Counseling Program
and is therefore awarded this Certificate.

Given this____________day of_______________nineteen hundred and______________

______________________________ ______________________________

Counselor Is Appointed For Allied Health Professions

A counselor has been appointed to acquaint students with allied health professions in four New Orleans public high schools.

James D. Wilson, a registered pharmacist, will direct the Allied Health Professional Counseling program, a part of Career Education of the New Orleans Public Schools (NOPS).

Wilson, who brings the counseling service to Walter L. Cohen, George Washington Carver, L.B. Landry and O. Perry Walker High Schools, says the chief purpose of the service is to make students aware of opportunities in allied health fields.

In addition to job prospects, how to prepare for jobs, schools that teach necessary skills and possible financial aids, will be discussed with students in the program which is supported by U. S. Department of Health, Education and Welfare.

Meeting with students from one of the four high schools each week, Wilson identifies interested students presents slides, movies and guest speakers and arranges field trips to institutions providing health services.

Another aid that Wilson points out to students is that tuition - free summer school is available for those in the program having weaknesses in subjects needed in preparing for allied health professions. Students are also encouraged to seek jobs or volunteer in these fields during summer months.

Wilson says there are approximately 50 students from grades nine through twelve in the program in each of the four high schools at this time.

Some allied health areas discussed are physical and inhalation therapy, dietetics, hospital accounting, business management of health institutions and positions in admitting offices, blood banks and dental fields.

For more information call 288-7374.

ALLIED

HEALTH

PROFESSIONS

COUNSELING

PROGRAM

STBANK COUNSELORS' RE-INFORCEMENT SEMINAR & LUNCHEON

THURSDAY

OCTOBER 20, 1977

1:00 P.M.

A-G-E-N-D-A

GREETINGS	**Mr. Jim Wilson** **Allied Health Counselor**
INTRODUCTIONS	

*****   PRESENTATIONS   *****

Mr. Lawrence Mauerman	Instructor - Occupational Safety & Health Delgado College(Westbank)
Mr. Joel Massey	Chairman - Dept. Allied Health & Vocational - Technical Professions Delgado College(Westbank)
Mr. William Nolan	Counselor - Student Financial Aid Delgado College(Westbank)

CLOSING REMARKS

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ALLIED
HEALTH
PROFESSIONS
COUNSELING
PROGRAM

EASTBANK COUNSELORS' RE-INFORCEMENT SEMINAR & LUNCHEON

FRIDAY
OCTOBER 21, 1977
1:00P.M.

A-G-E-N-D-A

GREETINGS	Mr. Jim Wilson Allied Health Counselor
INTRODUCTIONS	

*** PRESENTATIONS ***

Mr. Warren McKenna	Associate Dean College of Pharmacy Xavier University of LA
Mr. James T. Stewart	Dean - Allied Health Studies Delgado College
Mr. William Nolan	Counselor - Student Financial Aid Delgado College (Westbank)

CLOSING REMARKS

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CONGRATULATIONS

Congrats are extended to Allied Health's '78 graduates! Each of you take with you our hopes and aspirations that you will become a SUCCESS!!!

The following students have received acceptance letters, and will be attending the respective college/university this fall:

Student's Name	High School Attended	University
Valerie Bergeron	Walker	Houston-Tillotson
Veronica Narcisse	Cohen	SUNO
Karen Gastinell	Walker	Xavier
Charmaine Julien	Walker	Xavier
Allison Lloyd	Walker	Xavier
Charlene Price	Walker	Xavier
*Karen Roberts	Walker	Dillard
Theresa Hawthorne	Cohen	Nicholls State
Clara Cardriche	John McDonogh	UNO
Stanley Gordon	Landry	SUBR
Ronnie Torregano	John McDonogh	Xavier
Lori Morgan	Cohen	LSU
Deborah Bevley	Cohen	LSU
Janet Gauthier	Cohen	Mississippi Valley State
Gwendolyn McKinnis	Cohen	Northeastern
Carol Becnel	John McDonogh	UNO
Diane Hampton	John McDonogh	Dillard
Susan Green	John McDonogh	LSU School of Dentistry
Renita Redmond	John McDonogh	LSU
Cheryl Becnel	John McDonogh	SUNO
Debra Beauchamp	John McDonogh	UNO
Bertha Hensley	John McDonogh	LSU
Marion Williams	John McDonogh	SUNO
Sheba Bertrand	John McDonogh	SUNO
Yolanda Johnson	Cohen	UNO
Sharon Keyes	Cohen	LSU
Betty Lee	Cohen	St. Ann Convalescent Home Nursing Asst. Program
Stacey McComb	Cohen	LSU
Vanessa James	Cohen	Charity Hospital X-Ray Technology Program
Linda Veal	Cohen	Touro Infirmary School of Nursing
Cheryl Hampton	Cohen	Xavier

*Recipient of a four-year basketball scholarship to Dillard University where she will pursue a career in nursing. This scholarship was obtained through the Allied Health Counseling Office.

• • • • • ☆ • • • • •

Many thanks to all of the principals, counselors, and teachers who participated in the Allied Health Program.

ALLIED HEALTH PICNIC '78

AHPCP NEWSLETTER

August 15, 1978

Dear Student,

Here's hoping that your summer was well spent, with your involvement in many beneficial activities.

Your counselor has been rather busy processing last year's records and, making plans for this school session. Your schools will be initially visited the week of September 11-15, 1978. In another section of this newsletter, "AHPCP '78-79" will be discussed in further detail.

Members of the "Class of '78" have been contacted during the summer to re-emphasize the importance of further educational training. Most graduates would agree that – Early Planning Is Essential!!! A number of graduates have been accepted by universities and other training institutions. A list appears in another section of our newsletter.

I was somewhat disappointed in visiting summer schools, to find that a number of Allied Health students had withdrawn. It was clearly stated that should a student withdraw, the parent(s) would be held responsible for reimbursement. More important is the fact that these students, initially acknowledging their difficulty and the need for remediation, decided to ignore the reality.

I look forward to seeing you in September. It is my hope that you will decide to continue in the program for the rewarding opportunities and experiences!

The Allied Health Office is located at Bienville Elementary School, 1456 Gardena Drive, room 112, telephone number 288-7374. Students are encouraged to drop in or call.

Jim Wilson

Coordinator

ALLIED HEALTH '78 GRADS

From left to right: Veronica Narcisse (Cohen), Stanley Gordon (Landry), Karen Gastinell (Walker), Allison Lloyd (Walker), Lori Morgan (Cohen) Deborah Bevley (Cohen), Charmaine Julien (Walker), Ronnie Torregano (John McDonogh), and Clara Cardriche (John McDonogh, Renita Redmond (John McDonogh).

SUMMER SCHOOL

Approximately sixty-five students enrolled in summer schools throughout the city. We sincerely hope that these students have benefited from the remediation and, that an improvement in their academic performance will be observed this fall.

ALLIED HEALTH PICNIC

AHPCP held a picnic Thursday, July 27, 1978 at Audubon Park. Activities included softball, egg-catching competition, track and swimming.

Despite somewhat inclement weather, spirits were high, and the day was enjoyed by the forty-five participants and the counselor in attendance.

HATS OFF

The following students volunteered their services in local health facilities:

Student's Name	School
Lynelle Coursalt	John McDonogh
Cherri LaCoste	John McDonogh
Doretta Strickland	John McDonogh
Renita Redmond	Cohen
Ann Guillard	Landry
Gwendolyn McKinnis	Cohen
Cynthia Johnson	Landry
Portia Roy	Landry
Michael Burns	Cohen
Kena Wilson	Cohen
Lori Bridgewater	Landry
Lorraine Griffin	Walker
Valerie Bergeron	Walker

We are indeed proud of these students who took time from personal endeavors to assist in making more comfortable the sick and injured of our community.

AHPCP '78

The counselor will visit the schools the week of September 11-15, 1978. At this time, I will be recruiting new program participants, as well as registering those who wish to continue in AHPCP.

Seniors will have individual group sessions and will be required to register for the ACT/SAT at the beginning of the school year. Prospective graduates will also be required to have college brochures/catalogs offering information on the students' intended career choices.

All student participants will be required to attend class meetings regularly. More field trips are being planned for this year.

Below I have listed health professions discussed in our sessions. If you wish to continue in the program, return this bottom portion to me.

Please indicate three career choices:

Name ______________________________

School ______________________________

Career Choice: 1st ( ) 2nd ( ) 3rd ( )

1. Certified Medical Technologist
2. Certified Laboratory Technician
3. Cytotechnologist
4. Specialist in Blood Banking
5. Registered Radiologic Tech.
6. Registered Respiratory Therapist Tech.
7. Registered Electroencephalograph Tech.
8. Registered Physical Therapist
9. Registered Occupational Therapist Asst.
10. Certified Occupational Therapist Asst.
11. Speech Pathologist/Audiologist
12. Recreational Therapist
13. Registered Dental Hygienist
14. Registered Music Therapist
15. Certified Dental Laboratory Tech.
16. Doctor of Veterinary Science
17. Animal Technician
18. Registered Pharmacist
19. Registered Dietician
20. Dietetic Technician
21. Medical Records Administrator
22. Accredited Record Tech.
23. Sanitarian
24. Biomedical Engineer
25. Certified Prosthetist and Orthoptist
26. Certified Operation Room Tech.

You may return this information to me by: (1) mail, (2) bringing it to the office or, (3) turning it into your counselor during the [illegible] of September 1[illegible]

EXHIBITS

XAVIER UNIVERSITY	PRE-HEALTH PROGRAMS MEDICAL TECHNOLOGY	Ms. Gwendolyn Morris Ms. Croscina Crockett
DELGADO COLLEGE	OCCUPATIONAL SAFETY & HEALTH ENVIRONMENTAL HEALTH RADIOLOGIC TECHNOLOGY	Mr. Lawrence Mauerman Ms. Pat Bedembaugh Mr. Ray Grisclair
JEFFERSON PARISH AMBULANCE SERVICE	EMERGENCY MEDICAL TECHNOLOGY	Roby Harris, Mark Ross Ricky Wagenpfeill, Donald Weber
MAGNET SCHOOL FOR HEALTH CAREERS	NURSING	Ms. Nettie Copeland

(Advisory Committee for Allied Health Professions)

PHARMACY	JACK BATTISTE
MEDICAL TECHNOLOGY	CROSCINA CROCKETT
RESPIRATORY THERAPY	JIM ELLIS
RADIOLOGIC TECHNOLOGY	HAROLD GASPARD
DENTAL HYGIENE	GILDA HARDY
MEDICAL RECORDS ADMIN.	ANNIE P. NETTLES
OPERATING ROOM TECH.	JOSEPH W. PELLERIN
PHYSICAL THERAPY	RON SHOLES
OCCUPATIONAL THERAPY	RACHEL WISEMAN

* * * * *

We take this opportunity to express our sincere appreciation and gratitude to; Dr. Robert Gout, principal, the faculty, staff and Parent Teacher Association of O.Perry Walker Sr. High School; as well as each and every participant on this evening's program for their assistance and support in our first parents' seminar.

ALLIED HEALTH PROFESSIONS

PARENTS' AWARENESS SEMINAR

Thursday, March 15, 1979 7:30 P.M.

O. Perry Walker Senior High School Auditorium
2832 General Meyer Avenue

New Orleans Public Schools
Allied Health Professions Counseling Program

James Davis Wilson R.PH.
Project Coordinator

Dr. Adams D.H. Koroma Ph.D.
Assistant Superintendent
Division of Curriculum
New Orleans Public Schools

Dr. Anthony D. Gilkey Ed.D.
Program Consultant
Interdisciplinary Programs Branch
Div. of Associated Health Professions
Hyattsville, Maryland

PROGRAMME

GREETINGS	Mr. Logan White Asst. Principal O.Perry Walker Sr. High
Overview of AHPCP	Johnell Burgess John McDonogh Sr. High
Presentation of Speaker	Mr. James D. Wilson Allied Health Professions
Speaker	Dr. John Burke Chairman-Dept. of Physica Therapy - LSU School of Allied Health Professions

STUDENTS SPEAK ON AHPCP . . . . .

Ricky Wagenpfeill - Walker
Erica Charles - Carver
Cheryl Kates - Cohen
Milfred Roy - Landry

ALLIED HEALTH AUXILIARY SUPPORT SERVICES . . . . .

AFNA "New Access Routes to Professional Careers"- Ms.Dawn Williams
STUDENT FINANCIAL ASSISTANCE OPPORTUNITES - Mr. William Nolan
PRE-HEALTH PROGRAMS - Xavier University - Ms. Gwendolyn Morris
New Orleans EDUCATIONAL TALENT SEARCH PROGRAM - Ms. Beverly Roy
PRE-HEALTH PROGRAMS - Dillard University - Dr. Booke Pleasey

Acknowledgments	Mr. James D. Wilson

Remarks . . . . .

Mr. Henry W. Johnson	Adminstrative Asst. Div. of Curriculum
Dr. Matthew Proctor	District III Superintendent

CAREER
CORNER
VISITATION

ALLIED HEALTH PROFESSIONS COUNSELING PROGRAM -

COUNSELORS' RE-INFORCEMENT SEMINAR & LUNCHEON

WEDNESDAY, OCTOBER 25, 1978

A-G-E-N-D-A

GREETINGS	**MR. JIM WILSON** **ALLIED HEALTH COUNSELOR**

INTRODUCTIONS

PRESENTATIONS	PRESENTATIONS
MR. LAWRENCE MAUERMAN	OCCUPATIONAL SAFETY & HEALTH DELGADO COLLEGE (WESTBANK)
MS. PATRICIA BEDEMBAUGH	ENVIRONMENTAL HEALTH TECHNOLOGY DELGADO COLLEGE (WESTBANK)
MS. SHIRLEY MELTON	ADMISSIONS OFFICER DELGADO COLLEGE (WESTBANK)
MR. WILLIAM NOLAN	ASST. FINANCIAL AID OFFICER DELGADO COLLEGE (WESTBANK)
MRS. MARY MC MURRAY	NATURAL SCIENCES DIVISION OUR LADY OF HOLY CROSS COLLEGE
DR. EDITH DAVIS	NATURAL SCIENCES DIVISION OUR LADY OF HOLY CROSS COLLEGE
MRS. CROSCINA CROCKETT	MEDICAL TECHNOLOGY DEPARTMENT XAVIER UNIVERSITY
MS. GWENDOLYN MORRIS	PRE-HEALTH ADVISOR XAVIER UNIVERSITY
MS. CASSANDRA MURPHY	ADMISSIONS COUNSELOR SOUTHERN UNIVERSITY IN NEW ORLEANS
MR. RON SHOLES	SUPERVISOR- PHYSICAL THERAPY OUT-PATIENT SERVICES CHARITY HOSPITAL
MR. JIM ELLIS	SUPERVISOR-RESPIRATORY THERAPY CHARITY HOSPITAL
DR. ROBERT VOOGT	REHABILITATION COUNSELING LSU SCHOOL OF ALLIED HEALTH PROF.
MS. ANN WEHETSTONE	EMT TECHNOLOGY GOLD CROSS ACADEMY ALLIED HEALTH TRAINING CENTER

ALLIED HEALTH PROFESSIONS

COUNSELING PROGRAM

COUNSELORS' RE-INFORCEMENT SEMINAR & LUNCHEON

TUESDAY

OCTOBER 17, 1978

12:30 P.M.

A - G - E - N - D - A

GREETINGS	MR. JIM WILSON ALLIED HEALTH COUNSELOR
INTRODUCTIONS	

PRESENTATIONS

MRS. CROSCINA CROCKETT	ASST. PROFESSOR-MEDICAL TECHNOLOGY XAVIER UNIVERSITY
MR. HAROLD GASPARD	ASST. PROFESSOR RADIOLOGIC TECHNOLOGY DELGADO COLLEGE (CITY PARK CAMPUS)
LSU SCHOOL OF ALLIED HEALTH PROFESSIONS . . .	
MS. SANDRA CUNNINGHAM	OCCUPATIONAL THERAPY
DR. JOHN BURKE	PHYSICAL THERAPY
DR. RAY EDGE	RESPIRATORY THERAPY
MS. WAYNETTE NORMAN	MEDICAL TECHNOLOGY
DR. SUSAN DANIELS	REHABILITATION COUNSELING
MR. RONALD HANSEN	EEG TECHNOLOGY CHARITY HOSPITAL
MRS. CASSANDRA MURPHY	COUNSELOR SOUTHERN UNIVERSITY IN NEW ORLEANS
MR. JOSEPH HALL	ADMISSIONS COUNSELOR XAVIER UNIVERSITY COLLEGE OF PHARMACY
CLOSING REMARKS	

COMMUNITY RESOURCES

A. FACILITIES

1. Medical

a. Algiers General Hospital
b. Southern Baptist Hospital
c. Charity Hospital of Louisiana
d. Coliseum House
e. Children's Hospital
f. DePaul Hospital & Community Mental Health Center
g. East Jefferson General Hospital
h. Eye,Ear, Nose, and Throat Hospital
i. Flint-Goodridge Hospital of Dillard University
j. Hotel Dieu Hospital
k. Jo Ellen Smith Memorial Hospital
l. Lakeside Hospital for Women
m. Sara Mayo Hospital
n. Medicenter of America
o. Mercy Hospital
p. Methodist Hospital
q. Montelepre Memorial Hospital
r. Napoleon Surgical Facility Incorporated
s. Ochsner Foundation Medical Center
t. River Oaks Hospital
u. St. Charles General Hospital
v. St. Claude General Hospital of New Orleans LTD
w. South Jefferson General Hospital
x. Touro Infirmary
y. United States Public Health Service Hospital
z. Veterans' Administration Hospital

2. Educational

a. Delgado College
b. Dillard University
c. Louisiana State University Dental School
d. Louisiana State University Medical School
e. Louisiana State University School of Allied Health
f. Loyola University
g. Our Lady of Holy Cross College
h. St. Mary's Dominican College
i. Southern University in New Orleans
j. Tulane Medical Center
k. Tulane University
l. Tulane University-Hebert Research Center
m. University of New Orleans
n. Xavier University of Louisiana

B. CONSULTANTS

1. Allied Health Professionals

- a. Blood Banking - Martha Owen
- b. Dental - Robert Guerringer D.D.
- c. Dental Hygiene - Gilda Hardy
- d. Dietetics - Kathy Lass R.D.
- e. Emergency Medical Tech. - Alvee Carlini
- f. Medical Records - Jackie Maxwell, Annie P. Nettles
- g. Medical Technology - Croscina Crockett MT(ASCP)
- h. Occupational Therapy - Laura Noble(O.T.R.),Rachel Wiseman
- i. Operating Room Tech. - Joseph W. Pellerin
- j. Pharmacy - Horace Bynum R.PH., Jack O. Battiste R.PH.
- k. Physical Therapy - Jean Dutros, Ronald J. Sholes
- l. Radiologic Technology - Ron Pecoul, Harold E. Gaspard
- m. Respiratory Therapy - James S. Ellis Jr.
- n. Veterinary Medicine - Josuah Brooks D.V.M.

2. Educational Program Faculties

- a. Charity Hospital School of Operating Room Technology
- b. Louisiana State University School of Allied Health
- c. Delgado College (City Park & Westbank campuses)
- d. Ochsner Foundation Hospital Department of Education
- e. St. Mary's Dominican School of Inhalation Therapy
- f. Touro School of Nursing
- g. Magnet School for Health Careers (Nursing)
- h. Xavier University Media Lab
- i. Xavier University-Department of Medical Technology
- j. Xavier University College of Pharmacy

C. SUPPORTIVE AGENCIES *

- a. American Red Cross - New Orleans Chapter
- b. American Heart Association - Louisiana Chapter
- c. American Cancer Association - Louisiana Chapter
- d. Association for Retarded Citizens
- e. Louisiana Association for Mental Health
- f. New Orleans Blood Bank
- g. New Orleans Speech and Hearing Center
- h. Orleans Parish Schools Audio-Visual Library
- i. Sickle Cell Anemia Foundation
- j. Volunteer Information Agency
- k. American Foundation for Negro Affairs-New Access Routes to Medical Careers
- l. New Orleans Educational Talent Search Program,Inc.

* These agencies provided audio-visual materials or other services.

APPENDIX B

OCCUPATIONAL BRIEFS

REGISTERED MEDICAL TECHNOLOGIST MT(ASCP)

JOB DESCRIPTION

The medical technologist works in a laboratory under the direction of a pathologist, making various routine and special tests to obtain data needed in treating patients or in research. The medical technologist:

1. matches blood samples of donor and recipient in blood transfusions
2. grows "cultures" of bacteria found in a patient's blood, sputum, feces, or discharge from a sore or wound and identifies the bacteria
3. searches for and identifies parasites, such as tapeworms, pinworms, and round worms, which live in the human body
4. tests for antibodies and other disease-fighting elements in the blood
5. tests for the presence or absence of various chemicals in the blood and other body fluids
6. analyzes urine for evidence of illnesses of the blood, such as infection of the bladder, etc.
7. conducts blood tests to detect illnesses of the blood, such as hemophilia, anemia, leukemia, and mononucleosis
8. operates special apparatus and a variety of precision instruments
9. participates in medical research
10. performs various administrative, supervisory, and instructive functions.

EDUCATION/TRAINING

1. High School: science, including biology and chemistry; mathematics, including algebra
2. Advanced:
   a. bachelor's degree, including one year of clinical experience in an approved school of medical technology
   b. plus, successful completion of the registry examination for medical technologist

given by the Board of Registry of Medical
Technologist of the American Society of
Clinical Pathologists

COURSEWORK: chemistry, biology, mathematics, medical terminology, anatomy and physiology, blood-collecting techniques, preparation of solutions and media, bacteriology, serology, parasitology

INTEREST/APTITUDE

1. ability to do careful, reliable work under pressure
2. good eyesight with ability to distinguish fine shades of color
3. good manual dexterity and hand-eye coordination
4. clean, well-groomed appearance
5. willingness to work with body products, such as urine, feces, blood, etc.

SALARY/WORKING CONDITIONS: $7,500-$15,000: clean, well-lighted and ventilated office; 40-hour week with weekend, night, and "emergency" duty; part-time work available; some unpleasant odors, noises, and fumes due to equipment, solutions, and samples being tested; safety precautions to be strictly adhered to because of chemicals, infected tissue, and glass breakage; uniform required

JOB OPPORTUNITIES: hospitals, private and public laboratories, medical research institutes, pharmaceutical companies, Armed Services, colleges, veterinary clinics

SPECIALITIES: bacteriology, parasitology, biochemistry, blood banking, hematology, histology, urology, cytology, nuclear medicine, microbiology

RELATED OCCUPATIONS: pathologist, pharmacist, consumer safety officer, medical researcher, biologist, bio-chemist

INFORMATION SOURCE: American Medical Technologists, 710 Higgins Road, Park Ridge, Ill. 60068; American Society of Medical Technologists, Suite 1600, Hermann Professional Building, Houston, Tex. 77025; American Society of Clinical Pathology, 2100 West Harrison Street, Chicago, Ill 60612

EDUCATION SOURCE: Hospital Programs in Louisiana

Charity Hospital, 1532 Tulane Avenue, New Orleans, La. 70140; Hotel Dieu Hospital, 2021 Perdido Street, New Orleans, La. 70112; Mercy Hospital, 301 North Jefferson Davis Parkway, New Orleans, La. 70119; Ochsner Foundation Hospital, 1516 Jefferson Highway, New Orleans, La. 70121; Southern Baptist Hospital, 2700 Napoleon Avenue, New Orleans, La. 70115; Touro Infirmary, 1400 Foucher Street, New Orleans, La. 70115; U. S. Public Health Service Hospital, 210 State Street, New Orleans, La. 70118; Veteran's Administration Hospital, 1601 Perdido Street, New Orleans, La. 70146; Confederate Memorial Medical Center, 1541 Kings Highway, Shreveport, La. 71130; Schumpet Memorial Hospital, 915 Margaret Place, Shreveport, La. 71101; Rapides General Hospital, 327 Third Street, Alexandria, La. 71301; Baton Rouge General Hospital, 3600 Florida Street, Baton Rouge, La. 70806; Earl K, Long Memorial Hospital, 5825 Airline Highway, Baton Rouge, La. 70805; Our Lady of the Lake Hospital, 1600 Riverside N., Baton Rouge, La. 70802; Lafayette Charity Hospital, 311 W. St. Mary Boulevard, Lafayette, La. 70501; Lake Charles Memorial Hospital, 1701 Oak Park Boulevard, Lake Charles, La. 70601; St. Patrick's Hospital, 524 South Ryan Street, Lake Charles, La. 70601; St. Francis Hospital, 309 Jackson Street, Monroe, La. 71201

Colleges in Louisiana

Northeast Louisiana Technical College, Department of Allied Health Sciences, University Avenue, Monroe, La. 71209; McNeese State University, Lake Charles, La. 70601; Northwestern State University, Natchitoches, La. 71457; Loyola University, 6363 St. Charles Avenue, New Orleans, La. 70118; University of New Orleans, Lakefront Drive, New Orleans, La. 70122; Louisiana Tech University, Ruston, La. 71270; Nicholls State University, P. O. Box 2004, University Station, Thibodaux, La. 70301; Louisiana State University, Baton Rouge, La. 70803; St. Mary's Dominican College, 7214 St. Charles Avenue, New Orleans, La. 70118

Pre-Medical Technology

Delgado Junior College, Allied Health Division, 615 City Park Avenue, New Orleans, La. 70160; University of Southwestern Louisiana, University Avenue, Lafayette, La. 70501

Hospital Programs in Mississippi

Mississippi Baptist Hospital, 1190 North State Street, Jackson, Miss. 39201; Jones County Community Hospital, P. O. Box 607, Laurel, Miss. 39441;

North Mississippi Medical Center, 830 South Gloster Street, Tupelo, Miss. 38801.

Colleges in Mississippi

University of Southern Mississippi, Center for Health Related Sciences, Southern Station, Box 5153, Hattiesburg, Miss. 39401; University of Mississippi Medical Center, 2500 North State Street, Jackson, Miss. 39216

CERTIFIED LABORATORY ASSISTANT CLA(ASCP)

JOB DESCRIPTION

The laboratory assistant works under the direct supervision of the medical technologist in performing routine laboratory procedures. They are as follows:

1. collects blood specimens from patients
2. groups and types blood
3. prepares and stains slides
4. examines urine and other body fluids
5. concentrates specimens for parasitologic study
6. cleans and sterilizes equipment and glassware
7. prepares solutions
8. keeps careful records of tests and specimens.

EDUCATION/TRAINING

1. High School: biology, chemistry, physics, mathematics, algebra, geometry
2. Advanced:
   a. twelve-month program in certified laboratory assistant school approved by the American Medical Association
   b. plus, successful completion of a certification examination given by the Registry of the American Society of Clinical Pathologist

COURSEWORK: medical terminology, laboratory records, anatomy and physiology, asceptic techniques, basic laboratory, mathematics, blood-collecting techniques, preparation of solutions and media, bacteriology, serology, parasitology, clinical chemistry

INTEREST/APTITUDE

1. good eyesight with ability to distinguish fine shades of color
2. ability to do careful, reliable work under pressure

3. good manual dexterity, likes to work with machines and small tools
4. ability to work well as team member
5. willingness to work with body products, such as urine, feces, blood

SALARY/WORKING CONDITIONS: $4,000-$7,000: clean, well-lighted and ventilated laboratory; 40-hour week with weekend, night, and holiday shifts; part-time work available; some unpleasant odors, noises, and fumes due to equipment, solutions, and samples being tested; uniforms required

JOB OPPORTUNITIES: hospitals, private and public clinical laboratories, medical research institutes, colleges and universities, pharmaceutical companies, Armed Services, Veteran's Administration

SPECIALITIES: hematology, chemistry, blood banking, urinalysis, bacteriology, parisitology, serology

RELATED OCCUPATIONS: medical laboratory technician, medical technologist, pathologist, histologic technician, cytotechnologist, medical researcher

INFORMATION SOURCE: American Medical Technologist
710 Higgins Road, Park Ridge, Ill. 60068;
American Society of Medical Technologists
Suite 1600, Hermann Professional Building,
Houston, Tex. 77025; American Society
for Clinical Pathology, 2100 West
Harrison Street, Chicago, Ill. 60612

EDUCATION SOURCE: Hines Junior College, Raymond, Miss. 39154;
Copiah-Lincoln Junior College, Wesson,
Miss. 39191; Saints Junior College,
Lexington, Miss. 39095

MEDICAL LABORATORY TECHNICIAN MLT(ASCP)

JOB DESCRIPTION

The laboratory technician performs more complicated laboratory procedures than the laboratory assistant. He requires only limited supervision, but does not undertake the supervisory and educational responsibilities of the medical technologist. The laboratory technician's duties include:

1. conducting various blood tests to determine the blood type, cell count, clotting speed, and amount of hemoglobin
2. measuring and analyzing the chemical components of the blood, including urea, uric acid, glucose, calcium, potassium, sodium, chloresterol, etc.
3. doing bacteriological tests on samples of blood and body products
4. conducting other tests in urinalysis, parisitology, serology, virology, mycology, and toxicology
5. maintaining equipment and supply levels
6. maintaining departmental records and performing assigned duties.

EDUCATION/TRAINING

1. High School: biology, chemistry, physics, mathematics
2. Advanced:
   a. two-year program from an accredited junior or community college, including clinical experience
   b. plus, successful completion of the registry examination given by the Board of Registry of Medical Technologist

COURSEWORK: chemistry, anatomy and physiology, mathematics, microbiology, psychology, medical laboratory-orientation, ethics, and terminology, lab instruments, hematology, immunohematology, serology, urinalysis

INTEREST/APTITUDE

1. ability to do careful, reliable work under pressure
2. good eyesight with ability to distinguish fine shades of color

INTEREST/APTITUDE cont'd

3. good manual dexterity and hand-eye coordination
4. clean, well-groomed appearance
5. willingness to work with body products, such as urine, feces, blood, etc.

SALARY/WORKING CONDITIONS: $6,500-$8,500: clean, well-lighted and ventilated office; 40-hour week with weekend, night, and "emergency" duty; part-time work available; some unpleasant odors, noises, and fumes due to equipment, solutions, and samples being tested; safety precautions to be strictly adhered to because of chemicals, infected tissue, and glass breakage; uniform required

JOB OPPORTUNITIES: hospitals, private and public laboratories, medical research institutes, pharmaceutical companies, Armed Services, colleges

SPECIALITIES: bacteriology, parasitiology, biochemistry, blood banking, hematology, histology, urology, cytology

RELATED OCCUPATIONS: medical technologist, cytotechnologist, specialist in blood banking, pathologist, histologic technician, engineering technician, veterinary laboratory technician

INFORMATION SOURCE: American Medical Technologists, 210 Higgins Road, Park Ridge, Ill. 60068; American Society of Medical Technologists, Suite 1600, Hermann Professional Building, Houston, TEX 77025; National Committee for Careers in the Medical Laboratory, 9650 Rockville Pike, Rockville, Md. 20014

EDUCATION SOURCE: Copiah-Lincoln Junior College, Wesson, Miss. 39191; Hinds Junior College, Allied Health Programs, Raymond, Miss. 39154; Mississippi Delta Junior College, Moorhead, Miss. 38761; Mississippi Gulf Coast Junior College, Gautier, Miss. 39553; Northeast Mississippi Junior College, Booneville, Miss. 38829; Northwest Mississippi Junior College, Senatobia, Miss. 38668

SPECIALIST IN BLOOD BANK TECHNOLOGY MT(ASCP)SBB

JOB DESCRIPTION

The blood bank technologist is a medical technologist who has had advanced training in the collection and storage of blood and plasma. His duties include:

1. collecting blood from donors
2. typing, cross-matching, and testing blood for transfusion
3. processing blood for storage
4. storing blood and plasma for instant availability
5. retrieving blood as needed
6. maintaining accurate records on blood in storage
7. testing stored blood periodically to verify quality.

EDUCATION/TRAINING

1. High School: mathematics, biology, chemistry
2. Advanced:
    a. certification as a medical technologist
    b. or, bachelor degree from an approved college or university with a major in biological or physical science, plus, one-year clinical laboratory experience
    c. plus, one year additional training in a blood bank school approved by the American Association of Blood Banks
    d. plus, successful completion of an examination given by the Registry of Medical Technologists

COURSEWORK: chemistry, biology, mathematics, medical terminology, anatomy and physiology, blood-collecting techniques, preparation of solutions and media, bacteriology, serology, parisitology

INTEREST/APTITUDE

1. ability to do careful, reliable work under pressure
2. good eyesight with ability to distinguish fine shades of color
3. good manual dexterity

SALARY/WORKING CONDITIONS: $8,000-$10,000: 40-hour week with night and weekend shifts; clean, well-lighted and ventilated laboratory; strict safety precautions essential to prevent contamination of blood samples

JOB OPPORTUNITIES: hospitals, clinics, and special blood bank centers

RELATED OCCUPATIONS: biologist, bio-chemist, pathologist, physician

INFORMATION SOURCE: American Association of Blood Banks, 30 North Michigan Avenue, Suite 1322, Chicago, Ill. 60602

EDUCATION SOURCE: Charity Hospital, 1532 Tulane Avenue, New Orleans, La. 70140; New Orleans Blood Bank, 312 S. Galvez Street, New Orleans, La. 70119; Ochsner Foundation Hospital, 1516 Jefferson Highway, New Orleans, La. 70121; Southern Baptist Hospital, 2700 Napoleon Avenue, New Orleans, La. 70115

CYTOTECHNOLOGIST CT(ASCP)

JOB DESCRIPTION

The cytotechnologist is trained in special laboratory techniques for detecting body cell changes, working under the supervision of a pathologist. The cytotechnologist:

1. prepares and stains slides of body cell samplings with special dyes so that they can be easily seen under a microscope

2. screens slides of cell samplings, searching for clues to diseases, especially cancer

3. records impressions and findings, may draw what is seen through microscope for analysis or educational usage

4. gives slides with abnormalities to pathologist for final interpretation.

EDUCATION/TRAINING

1. High School: biology, science, mathematics, chemistry, art
2. Advanced:
    a. two years of college work including twelve semester hours in biology
    b. plus, twelve months of training in an approved school of cytotechnology, including six months clinical experience
    c. plus, successful completion of the certifying examination given by the Registry of Medical Technologist. (The exam has written and practical parts.)

COURSEWORK: biology, bacteriology, physiology, botany, histology, genetics, zoology, chemistry or physics, laboratory techniques

INTEREST/APTITUDE

1. ability to do careful, reliable work even under pressure
2. good eyesight with ability to distinguish fine color and shape variation
3. good manual dexterity
4. a sense of responsibility
5. willingness to work seated at a microscope for many hours a day

SALARY/WORKING CONDITIONS: $7,800-$8,500: clean, quiet, well-lighted and ventilated laboratory; 40-hour week with occasional emergencies and possible weekend duty; uniform required; good for physically handicapped individual who meets requirements

JOB OPPORTUNITIES: hospitals, private and public laboratories, medical research institutes, colleges and universities, pharmaceutical companies, armed services and Veteran's Administration

RELATED OCCUPATION: medical technologist, histologist, pathologist, medical researcher, biologist

INFORMATION SOURCE: American Medical Technologist, 710 Higgins Road, Park Ridge, Ill. 60068; American Society of Clinical Pathologists, 2100 West Harrison Street, Chicago, Ill. 60612

EDUCATION SOURCE: Louisiana

Charity Hospital of Louisiana, New Orleans, La. 70140; Northwestern State University, Natchitoches, La. 71457; Louisiana State University, Baton Rouge, La. 70803; St. Mary's Dominican College, 7214 St. Charles Avenue, New Orleans, La. 70118

Mississippi

University of Mississippi Medical Center, School of Health Related Professions, 2500 North State Street, Jackson, Miss. 39216

Allied Health/NOPS
7/76

CERTIFIED RADIOLOGIC TECHNOLOGIST R.T. (ARRT)
(X-ray Technician)

JOB DESCRIPTION

The radiologic technologist assists the radiologist by operating the various X-ray machines used in the diagnosis and treatment of disease. The diagnostic X-ray technologist:

1. operates the X-ray equipment which makes radiographs (on X-ray film) of the various parts of the body
2. adjusts equipment settings for a specific examination
3. prepares the X-ray "milkshake," a liquid, such as barium salt, which shows up opaque on the film
4. positions and instructs the patient
5. makes the required number of X-ray pictures
6. develops the X-rays and gives them to a radiologist or physician for interpretation
7. maintains files, records, and reports.

The nuclear medicine technologist operates the radioscopic equipment to produce scanograms and measures concentrations of radioactive isotopes in specified body areas. This specialty requires an additional year of study.

The radiation therapy technologist operates the X-ray therapy machine for cancer treatment and may prepare, administer, and measure radioactive isotopes as specified by the radiologist.

EDUCATION/TRAINING

1. High School: mathematics; science, including biology, chemistry, and physics; English; basic electronics could be helpful
2. Advanced:
   a. four-year program with degree in X-ray Technology, or
   b. two-year program in an accredited school of X-ray technology
   c. plus, two years of experience,

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including training time under an experienced radiologist

d. plus, successful completion of an examination given by the American Registry of Radiologic Technologist

COURSEWORK: English, mathematics, physics, economics, psychology, anatomy and physiology, radiation protection, radiologic science, radiation therapy, radiography, physiopathology

INTEREST/APTITUDE

1. gentle, sympathetic attitude and desire to help others
2. good manual dexterity
3. accurate and careful, since errors may be dangerous to the patient
4. willingness to spend much of the day standing or "on-the-go"

SALARY/WORKING CONDITIONS: $8,000-$15,000; 40-hour week with night, weekend, and "on-call" duty; clean, well-lighted and ventilated work area; must observe strict safety precautions; uniform required

JOB OPPORTUNITIES: hospitals, health agencies, industrial clinics, medical centers, Armed Services, private industry, equipment and supply manufacturers, educational facilities

SPECIALITIES: general duty, chest X-ray, urology, orthopedic, special procedures, radiation therapy, nuclear medicine

RELATED OCCUPATIONS: nuclear medicine technologist, radiologist, physician, nursing, medical researcher, respiratory therapist, physical therapist

INFORMATION SOURCE: American Society of Radiologic Technologist, Suite 836, 500 North Michigan Avenue, Chicago, Ill. 60611; American Registry of Radiologic Technicians, 2600 Wayzata Boulevard, Minneapolis, Minn. 55405

EDUCATION SOURCE: Hospitals in Louisiana

Charity Hospital, 1532 Tulane Avenue, New Orleans, La. 70140; Hotel Dieu Hospital, 2021 Perdido Street, New Orleans, La. 70112; Methodist Hospital, 5620 Read Road, New Orleans,La. 70127; Ochsner Foundation, 1516 Jefferson Highway, New Orleans, La. 70121; Southern Baptist Hospital, 2700 Napoleon Avenue, New Orleans, La. 70125; East Jefferson General Hospital, 4200 Houma Boulevard, Metairie, La. 70002; St Frances Cabrini Hospital, 3330 Masonic Drive, Alexandria, La. 71301; Morehouse General Hospital, 323 West Walnut Street, Bastrop, La. 71220; Seventh Ward General Hospital, P. O. Box 910, Hammond, La. 70401; Lallie Kemp Charity Hospital, Highway 51 North, Independence, La. 70443; Lafayette Charity Hospital, 311 West St. Mary Street, Lafayette, La. 70501; St. Patrick's Hospital, 524 South Ryan Street, Lake Charles, La. 70601; St. Frances Hospital, 309 Jackson Street, Monroe, La. 71201; Confederate Memorial Medical Center, 1541 Kings Highway, Shreveport, La. 71130; Schumpet Memorial Hospital, 915 Margaret Place, Shreveport, La. 71101

Colleges in Louisiana

Northeast Louisiana Technical College, Department of Allied Health Science, University Avenue, Monroe, La. 71201; Northwestern State University, Natchitoches, La. 71457; Louisiana State University, Baton Rouge, La. 70803; Louisiana State University, Shreveport, La. 71105; Delgado Junior College, Allied Health Division, 615 City Park Avenue, New Orleans, La.70160

Colleges in Mississippi

Mississippi Gulf Coast Junior College, Highway 90, Gautier, Miss 39553; Meridian Junior College, Meridian Miss. 39301; Meridian School of Radiologic Technology, 2124 14th Street, Meridian, Miss 39301; Jones County Junior College,Ellisville, Miss. 39437; Mississippi Delta Junior College, Moorhead, Miss. 38761; University of Mississippi, University,Miss.38677;William Carey College, Hattiesburg, Miss. 39401

REGISTERED ELECTROENCEPHALOGRAPH TECHNOLOGIST
(EEG Technician) R.EEG T.

JOB DESCRIPTION

The electroencephalograph technologist is trained to operate the electroencephalograph (EEG), an instrument which records brain waves. The electroencephalograph technologist:

1. records patient's EEG activity by applying small electrodes to the patient's scalp in standard locations and selecting combinations of electrodes and instrument controls to provide the most meaningful interpretation

2. observes the patient during examination and keeps a careful record of his behavior

3. gives recorded tracings to a physician specially trained to interpret electroencephalographic information

4. schedules patients; maintains departmental records; equipment, and supply level

5. determines cerebral death (a new function)--the tracing appears straight if the brain is in a state of electrical silence.

EDUCATION/TRAINING

1. High School: three years of mathematics; biology; chemistry; physics; electronics when available
2. Advanced:
    a. two-year training program from an accredited junior or community college, or
    b. one-year training program including 6 months of study in anatomy, physiology, basic instrumentation, diseases of the brain, care of patients, and practical EEG recording, followed by a 6-month period of supervised practice
    c. plus, one year experience
    d. plus, successful completion of EEG technologist examination given by the Registry of the American Board Registration of EEG Technologists (ABRET)

COURSEWORK: anatomy and physiology, neuroanatomy, physics, electronics, psychology, English, clinical electroencephalography

INTEREST/APTITUDE

1. good manual dexterity
2. observation ability; attention to detail
3. individual intiative and dedication
4. ability to remain calm under pressure; can reassure patients with varying degrees of illness

SALARY/WORKING CONDITIONS: $6,000-$12,000; 40-hour week with occasional overtime and "on-call" duty; clean, well-lighted surroundings;uniform required

JOB OPPORTUNITIES: hospitals, clinics, medical centers, government agencies

RELATED OCCUPATIONS: electro-cardiograph technician

INFORMATION SOURCE: American Society of Electroencephalographic Technologists, Division of EEG and Neurophysiology, 500 Newton Road, Iowa City, Iowa 52240

EDUCATION SOURCE: Louisiana

Louisiana State University, School of Medicine, 1542 Tulane Avenue, New Orleans, La. 70112; Confederate Memorial Hospital Center, Shreveport, La. 71130

Mississippi

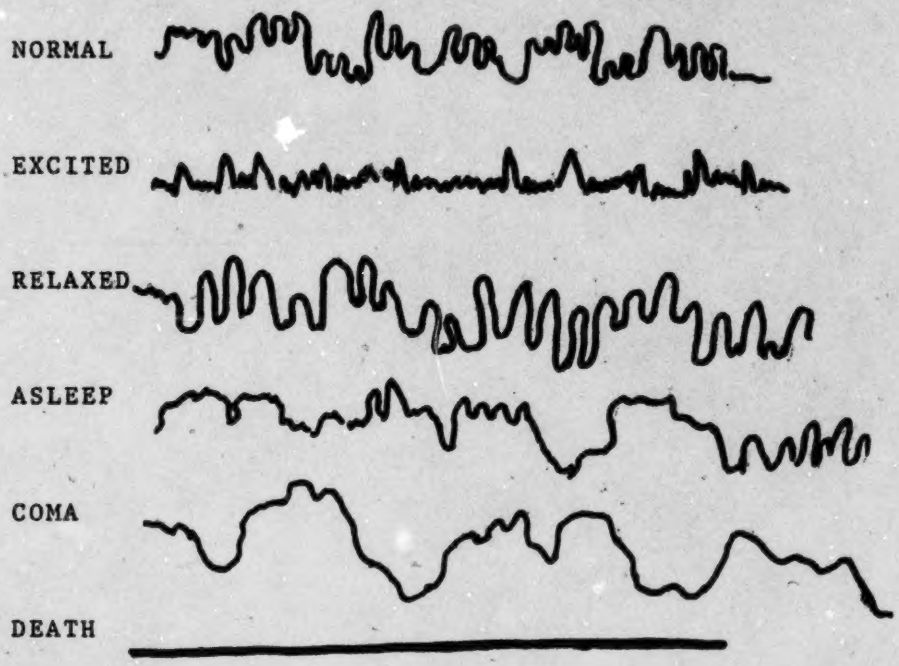
None

ELECTROENCEPHALOGRAPH

The German physiologist, Hans Berger (1873-1941), first devised this method of recording brain waves and published a report on it in 1929. Berger discovered two basic patterns: the alpha wave, or Berger rhythm; and the beta wave which is rhythmically regular and has frequencies averaging 10 cycles per second. The beta wave varies more rapidly, usually between 25 and 35 cycles per second, but often up to 50 per second.

Encyclopedia Americana, page 201a

SAMPLES OF BRAIN WAVE PATTERNS TRACED BY AN ELECTROENCEPHALOGRAPH



REGISTERED RESPIRATORY THERAPIST AART
(Inhalation Therapist)

JOB DESCRIPTION

The respiratory therapist sets up and operates various types of therapeutic gas and mist inhalation equipment. He also:

1. determines the most suitable method of administering the inhalant, what precautions to observe, and necessary modifications to meet the physician's exact prescription
2. explains to the patient what the inhalation treatment will consist of, instructs the patient as to breathing procedure, and administers the treatment
3. observes the patient during treatment to watch for bad reactions; records rate of breathing, heartbeat (pulse), and changes in the patient's pallor (color)
4. conducts pulmonary function tests of various types, including lung volumes, gas flows, and blood gas
5. maintains equipment and supply levels
6. conducts classroom and on-the-job instruction in respiratory therapy

EXAMPLES OF DISEASES REQUIRING RESPIRATORY THERAPY:

asthma, heart transplant, emphysema, lung cancer, open heart surgery

EDUCATION/TRAINING

1. High School: mathematics, biology, chemistry, physics
2. Advanced:
    - a. 9-24-month programs from accredited school of respiratory therapy including clinical experience, or
    - b. 4-year program with degree in respiratory therapy
    - c. plus, successful completion of registration examination given by the American Registry of Respiratory Therapist(ARRT);includes oral exam

COURSEWORK: English, mathematics, chemistry, physics, psychology, speech, respiratory therapy techniques, anatomy and physiology, microbiology

INTEREST/APTITUDE

1. good verbal ability
2. interest in working with people to benefit their health
3. good motor coordination and finger dexterity
4. ability to work calmly with people under stress
5. attention to detail --must regulate medication and equipment exactly
6. ability to be "on-the-go" continually; may be required to move equipment to many hospital wards daily

SALARY/WORKING CONDITIONS: $8,500-$15,000; 40-hour week with day, night, and weekend shifts; clean, well-lighted and ventilated environment; uniform required

JOB OPPORTUNITIES: hospitals, research agencies, government health department, industrial firms, private business selling respiratory equipment, future opportunities in space and underwater exploration

RELATED OCCUPATIONS: aenesthetist, nursing, physician, pulmonary function technician, electrocardiograph technician, electroencephalographic technician, renal dialysis technician

INFORMATION SOURCE: American Association for Respiratory Therapy, 7411 Hines Place, Dallas, Tex. 75235

EDUCATION SOURCE: Louisisna
Ochsner Foundation Hospital, 1516 Jefferson Highway, New Orleans, La. 70121; St. Mary's Dominican College, 7214 St. Charles Avenue, New Orleans, La. 70118; Delgado College, Allied Health Division, 615 City Park Avenue, New Orleans, La. 70119

Pre-Inhalation Therapy
University of New Orleans, Lakefront Drive, New Orleans, La. 70122

Mississippi

Mississippi Baptist Hospital, 1190 North State Street, Jackson, Miss. 39201; Meridian Junior College, Meridian, Miss. 39301; Hinds Junior College, Raymond, Miss. 39154

CERTIFIED RESPIRATORY THERAPY TECHNICIAN CRTT

JOB DESCRIPTION

The respiratory technician, under a physician's supervision provides routine respiratory therapy patient care. He is trained to:

1. administer gas and aerosol therapy and intermittent positive pressure breathing (IPPB) treatments
2. assist respiratory therapist and/or physician with long-term continuous ventilation, special therapeutic procedures, and cardiopulmonary resuscitation
3. perform routine tasks related to care, especially those of airway management
4. clean, sterilize, and maintain respiratory therapy equipment
5. maintain patient and departmental records.

EDUCATION/TRAINING

1. High School: mathematics, biology, chemistry, physics, and psychology, if available
2. Advanced:
   a. 9-24-month program from an accredited school of respiratory therapy
   b. including, one-year of clinical experience in respiratory therapy
   c. plus, successful completion of a written examination given by the National Board for Respiratory Therapy

COURSEWORK: anatomy and physiology, chemistry, physics, microbiology, mathematics, inhalation therapy technique, pharmacology

INTEREST/APTITUDE

1. good verbal ability
2. interest in working with people to benefit their health
3. good motor coordination and finger dexterity
4. ability to work calmly with people under stress
5. attention to detail--must regulate medication and equipment exactly
6. ability to be "on-the-go" continually; may be required to move equipment to many hospital wards daily

Certified Respiratory Therapy Technician CRTT

SALARY/WORKING CONDITIONS: $6,000-$8,500; 40-hour work week with day, night, and weekend shifts; clean, well-lighted and ventilated environment; uniform required

JOB OPPORTUNITIES: hospitals, research agencies, government health departments, industrial firms, private business selling respiratory equipment, future opportunities in space and underwater exploration

RELATED OCCUPATIONS: anesthetist, electrocardiograph technician, electroencephalographic technician, renal dialysis technician

INFORMATION SOURCE: American Association for Respiratory Therapists, 7411 Hines Place, Dallas, Texas 75235

EDUCATION SOURCE: Louisiana

Terrebone General Hospital, P.O. Box 1111, 936 Main Street, Houma, La. 70360; Our Lady of Lourdes Hospital, 611 St. Landry Street, Lafayette, La. 70501; Lake Charles Charity Hospital, 1000 Walters Street, Lake Charles, La. 70601; Delgado Junior College, 615 City Park Avenue, New Orleans, La. 70119; Ochsner Foundation Hospital, 1516 Jefferson Highway, New Orleans, La. 70121; Sara Mayo Hospital, 625 Jackson Avenue, New Orleans, La. 70130

Mississippi

Northeast Mississippi Junior College, Cunningham Boulevard, Booneville, Miss. 38829; Hinds Junior College, Jackson Branch, 3925 Sunset Drive, Jackson, Miss. 39213; *Itawamba Junior College, Fulton, Miss. 38843; *Pearl River Junior College, Poplarville, Miss. 39470; Meridian Junior College, Meridian, Miss. 39301

* Programs not approved by the American Association of Respiratory Therapy in 1974

CERTIFIED PROSTHETIST AND ORTHOTIST

JOB DESCRIPTION

The prosthetist designs, makes, and fits an artificial limb for patients with amputated or deformed extremities. The orthotist designs, makes, and fits orthopedic braces for patients with neurological and orthopedic disorders. The duties of the two are:

1. makes appliances which give the maximum possible function
2. examines the patient, carefully measuring the limb or deformity
3. makes a plaster cast of the deformity or limb
4. constructs the appliance from such materials as plastic, leather, steel, and aluminum
5. fits and modifies the appliance to provide greater function and comfort
6. instructs the patient in the proper use and care of the device
7. evaluates the appliance as it is being worn by the patient
8. services and repairs appliances as needed.

EDUCATION/TRAINING

1. High School: physics, biology, algebra, geometry, psychology, art, mechanical drawing, shopwork, including metal, plastics, and wood
2. Advanced:
   - a. two-year program from an approved junior or community college, or
   - b. four-year degree program from an approved university or training institution
   - c. plus, one-two years of experience under the supervision of a certified prosthetist or orthotist
   - d. plus, recommendations from three doctors and one or more co-workers
   - e. plus, certification from the American Board for Certification in orthotics/prosthetics by successful completion of an eight-hour written examination, an oral examination, and a practical examination

COURSEWORK: English, psychology, prosthetic and orthotic materials and techniques, mechanics and heat, figure drawing, psychology

INTEREST/APTITUDE

1. good communication skills
2. ability to work with people of all ages
3. good manual dexterity
4. aptitude for machines and tools
5. accuracy, initiative, creativity
6. ability to follow blueprints and diagrams

SALARY/WORKING CONDITIONS: $6,000-$15,000; clean, efficient workshop with lots of equipment, tools and materials; some odor and noise due to materials and equipment used; 40-hour week; uniform required

JOB OPPORTUNITIES: hospitals, rehabilitation centers, clinics, private businesses, research and educational institutions, foreign institutions

SPECIALITIES: prosthetics, orthotics

RELATED OCCUPATIONS: physical therapist, occupational therapist, orthopedist, vocational rehabilitation counselor

INFORMATION SOURCE: American Orthotic and Prosthetic Association,
1440 N. Street, N. W., Washington, D. C. 20005;
American Council, 3400 Massachusetts Avenue,
N. W., Washington, D. C. 20007

EDUCATION SOURCE: Delgado College, Allied Health Division,
615 City Park Avenue, New Orleans, La. 70160
(technician level)

LICENSED PHYSICAL THERAPIST LPT or RPT

JOB DESCRIPTION

The physical therapist, upon referral from a physician, helps patients overcome a physical disability through therapeutic exercise, massage, and the use of heat and cold. He:

1. evaluates current functional level
2. develops cooperative relationship with the patient
3. gives treatments and exercises to restore abnormal muscles
4. massages and applies hot packs
5. maintains and operates equipment: water bath, electricity and ultra-violet-ray machines
6. instructs in the care and use of braces or prosthetic appliances
7. instructs in techniques of muscle re-education
8. instructs patients and their families in how to carry on prescribed treatment at home
9. maintains records, makes verbal and written progress reports, performs other administrative and supervisory function
10. trains personnel.

EDUCATION/TRAINING

1. High School: mathematics; biology; physics; chemistry; shop and physical education would also be helpful, including swimming
2. Advanced:
    a. four-year bachelor's degree in physical therapy, or
    b. bachelor's degree, plus twelve-month certificate course in physical therapy, or
    c. master's degree program in physical therapy
    d. plus, successful completion of the physical therapy examination given by the State Board

INTEREST/APTITUDE:

1. good health and physical stamina; must be "on-the-go" all day

2. adaptability, emotional stability, tact, and outgoing personality
3. patience and the ability to work toward a long-range goal when progress is often extremely slow
4. ability to wrk with those in pain
5. desire to work with people whose temperaments and personalities are as varied as their illnesses and handicaps
6. good manual dexterity

SALARY/WORKING CONDITIONS: $8,000-$10,500: 40-hour week with some evening or weekend "on-call" duty; clean, well-lighted and ventilated clinic; low noise level due to equipment and activities involved; uniform usually required

JOB OPPORTUNITIES: hospitals: public health, military, Veterans, state, private, charity, etc; community health centers, nursing homes; rehabilitation centers; schools and university training programs; industrial clinics; private practices

RELATED OCCUPATIONS: chiropractor, occupational therapist, orthopedist, nursing, physical education isntructor, prosthetist, orthotist

INFORMATION SOURCE: American Physical Therapy Association
1156 15th Street, N. W., Washington, D. C. 20005

EDUCATION SOURCE: Louisiana

Northeast Louisiana Technical College, Department of Allied Health Science, University Avenue, Monroe, La. 71201; Louisiana State University Medical Center, School of Allied Health Profession, 1190 Florida Avenue, New Orleans, La. 70119 (last two years);

Pre-Physical Therapy Courses

Louisiana State University, Baton Rouge, La. 70803; Nicholls State University, University Station, Thibodaux, La. 70301; Delgado Junior College, 614 City Park AVenue, New Orleans, La. 70160; University of Southwestern Louisiana, University Avenue, Lafayette, La. 70501

Mississippi

University of Mississippi, 2500 N. State Street, Jackson, Miss. 59216

Allied Health/NOPS
6/76

REGISTERED OCCUPATIONAL THERAPIST O.T.R.

JOB DESCRIPTION

The occupational therapist, upon referral by a physician, evaluates the functional level of a patient and decides which activity would be most appealing and of greatest value to him. He:

1. works as a member of the treatment team to assist people with emotional or physical disabilities overcome or correct that disability

2. uses own personality as a means of developing the patient's trust and respect so the patient will work toward overcoming the disability

3. determines the type of treatment to be used depending upon the patient's disability, physical and emotional condition, temperament, short-term and long-term goals

4. makes and fits splints and other assistive devices; adapts equipment to patients individual needs

5. maintains supply levels and equipment

6. utilizes arts and craft activities to reach the treatment goal, including leatherwork, jewelry, ceramics, woodwork, metalwork, weaving, printing, needlework, and homemaking and daily living skills

7. performs administrative and supervisory duties.

EDUCATION/TRAINING

1. High School: English; foreign language; speech; mathematics; biology; chemistry, or physics; home economics; art; shop, electronics, and mechanical drawing, if available
2. Advanced:
    a. four-year college program in occupational therapy, plus 6-9 months clinical experience, or
    b. college degree in another field, plus 18-22 months academic and clinical work in a school of occupational therapy, or
    c. master's degree program in occupatinnal therapy
    d. plus, completion of examination given by the Registry of the American Occupational Therapy Association (A.O.T.A.)

INTEREST/APTITUDE

1. emotional stability and physical stamina; must be able to be "on-the-go" most of the day
2. desire and ability to work with people whose temperaments and personalities are as varied as their illnesses and handicaps
3. ingenuity and imagination in adapting activities to individual needs
4. patience, since progress is often extremely slow
5. ability to give clear, concise directions
6. creative abilities

SALARY/WORKING CONDITIONS: $7,000-$14,000 40-hour week with possible weekend assignments in hospitals providing long-term care; pleasant, attractive work area with tendency to be a bit cluttered and noisy depending on the activities involved; uniform may be required

JOB OPPORTUNITIES: hospitals: public health, military, Veterans, state, private, charity, etc; community health centers; nursing homes; rehabilitation agencies; private practice; school and university training programs; special schools, as consultants to public school systems and health agencies

SPECIALITIES: psychiatry, pediatrics, physical disabilities, general medicine and surgery, geriatrics, mental retardation

RELATED OCCUPATIONS: physical therapist, rehabilitation counselor, recreational therapist, art therapist, music therapist, dance therapist, nursing, dental hygienist, vocational counselor, psychologist, social worker, prosthetist, orthotist

INFORMATION SOURCE: American Occupational Therapy Association
6000 Executive Boulevard, Suite 200, Rockville,
Md. 20852

EDUCATION SOURCE: Louisiana

Northeast Louisiana Technical College, Department of Allied Health Sciences, Monroe, La. 70120;
Louisiana State University, Baton Rouge, La. 70803;
Loyola University, 6363 St. Charles Avenue, New Orleans, La. 70118 (pre-occupational therapy);
University of New Orleans, Lakefront Drive, New Orleans, La. 70122 (pre-occupational therapy);

Delgado Junior College, Allied Health Division,
615 City Park Avenue, New Orleans, La. 70160
(pre-occupational therapy); Louisiana State
University Medical Center, School of Allied Health
Health Professions, 1190 Florida Avenue, New Orleans,
La. 70119 (last two years)

Mississippi

None

SPEECH PATHOLOGIST/AUDIOLOGIST SP/A

JOB DESCRIPTION

The speech pathologist/audiologist specializes in helping children and adults with speech and hearing problems to communicate as nearly normal as possible. His duties are as follows:

1. identifies and evaluates speech and hearing problems
2. treats speech and hearing disorders through therapy
3. does research into the causes of these disorders and improves treatment methods
4. acts as a consultant for educational, medical, and other professional groups.

EDUCATION/TRAINING

1. High School: English; speech; science, including biology; mathematics; drama could be helpful
2. Advanced:
   - a. college degree with emphasis on liberal arts, speech and language
   - b. plus, master's degree from college with an acceptable department of speech pathology and audiology
   - c. plus, certification by the American Speech and Hearing Association

COURSEWORK: linguistics, semantics, phonetics, child psychology, biology, physics, anatomy and physiology

INTEREST/APTITUDE

1. concern for people with physical and psychological impairment and a sincere desire to help them
2. excellent communication skills --clear speech, good hearing
3. ability to work objectively
4. warm, friendly personality that inspires confidence
5. patience and perseverance
6. liking for children

SALARY/WORKING CONDITIONS: $9,000-$20,000; pleasant, well equipped work area including individual treatment rooms, usually with observation windows

JOB OPPORTUNITIES: public and private schools, rehabilitation centers, speech and hearing clinics, social agencies, medical centers, hospitals, college training programs, private practices

SPECIALITIES: speech pathology, audiology, language, cerebral palsy, aphasia

RELATED OCCUPATIONS: special education teacher, medical researcher, speech teacher, occupational therapist

INFORMATION SOURCE: American Speech and Hearing Association, 9030 Old Georgetown Road, Washington, D. C. 20014

EDUCATION SOURCE: Universities in Louisiana

Northeast Louisiana University, Department of Allied Health Science, University Avenue, Monroe, La. 71201; Southern University, 6400 Press Drive, New Orleans, La. 70126; Louisiana Polytechnic Institute, Ruston, La. 71270; Louisiana State University, Baton Rouge, La. 70803; St. Mary's Dominican College, 7214 St. Charles Avenue, New Orleans, La. 70118; University of Southwestern Louisiana, University Avenue, Lafayette, La. 70501; Grambling College, Grambling, La. 71245; Nicholls State University, Thibodaux, La. 70301; Southeastern Louisiana University, Hammond, La. 70401; Xavier University, New Orleans, La. 70125; Louisiana State University Medical Center, New Orleans, La. 70100; Northwestern State College, Natchitoches, La. 71457; Tulane University School of Medicine, 1430 Tulane Avenue, New Orleans, La. 70112; Southern University, Baton Rouge, La. 70813

Universities in Mississippi

Mississippi State College for Women, Columbus, Miss. 39701; University of Mississippi, University, Miss. 38677; University of Southern Mississippi, Southern Station, Hattiesburg, Miss. 39401

RECREATIONAL THERAPIST

JOB DESCRIPTION

The recreational therapist is responsible for administering, organizing, and conducting leisure time programs which are designed to aid in the recovery or adjustment of persons who are ill, physically handicapped, mentally retarded, or behaviorally disturbed. The therapist's duties include:

1. developing appropriate recreational programs dependent upon the needs of the individuals or groups recommended for the program
2. encouraging individuals to participate in the selected activities
3. scheduling and supervising the use of all equipment and facilities
4. hiring, training, and supervising both volunteer and paid recreation workers
5. directing both indoor and outdoor activities such as field trips, sports events, parties, arts and crafts, drama and musical productions, swimming, table games, and exercise programs
6. maintaining patient and departmental records, equipment and supply levels, and making recommendations for the improvement of the recreational program.

EDUCATION/TRAINING

1. High School: English, speech, biology, physical education, art, music, drama
2. Advanced:
    a. completion of an associate degree or certificate program in therapeutic recreation from an accredited junior college
    b. or, completion of a four-year program in therapeutic recreation from an accredited senior college
    c. plus, 10-12-week internship in an approved recreation therapy program

d. plus, state or national registration

COURSEWORK: English, history, science, sociology, physics, growth and development, physiology, administration, swimming, basketball, archery, etc., therapeutic recreation

INTEREST/APTITUDE

1. good physical health and stamina; willingness to be "on-the-go" constantly
2. sincere liking for people and the desire to help them
3. ability to inspire confidence in people of all ages
4. ability to express themselves clearly, both orally and in writing
5. a keen sense of humor, patience, ingenuity, and creative imagination

SALARY/WORKING CONDITIONS: $6,000-$20,000; 40-hour week which usually includes evening and weekend duty; work area includes indoor and outdoor recreational activities, hard work, and visits into the community

SPECIALITIES: psychiatry, pediatrics, geriatrics, cerebral palsy, administration

RELATED OCCUPATIONS: physical therapy, occupational therapy, music therapy, physical education teacher, recreation leader, recreation director

INFORMATION SOURCE: National Therapeutic Recreation Society, 1601 North Kent Street, Arlington, Va. 22209; National Recreation and Park Association, 1601 North Kent Street, Arlington, Va. 22209; National Association of Recreational Therapists, Inc., Eastern State Hospital, Vinita, Okla. 74301

EDUCATION SOURCE: Louisiana

Southern University, Baton Rouge, La. 70803; Grambling College, Grambling, La. 71245

Mississippi

University of Southern Mississippi, Hattiesburg, Miss. 39401; University of Mississippi, University, Miss. 38677

Allied Health/NOPS
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REGISTERED MUSIC THERAPIST MT

JOB DESCRIPTION

The music therapist uses music to restore, maintain, or improve mental and physical health. His duties are as follows:

1. applies music in a therapeutic environment to influence positive changes in behavior
2. teaches individuals how to play instruments of their own choice
3. evaluates the effectiveness of treatment program
4. maintains records, performs administrative and supervisory duties
5. orders supplies and equipment, keeps musical instruments in good working condition.

EDUCATION/TRAINING

1. High School: English, speech, social and biological sciences, physical education (including dance), drama, music
2. Advanced:
    - a. completion of a four-year program from an approved college or university
    - b. plus, six-month period of clinical training under the direction of a Registered Music Therapist

COURSEWORK: English, speech, biological and social sciences, dance, drama, psychology, music theory and literature, applied music, music therapy

INTEREST/APTITUDE

1. emotional stability
2. genuine interest in people
3. patience, tact, understanding, and a sense of humor
4. imaginative, creative, and musically inclined

SALARY/WORKING CONDITIONS: $8,500-$10,000; 40-hour week with possible evening or weekend assignments

JOB OPPORTUNITIES: hospitals, day care centers, clinics, schools for the retarded and handicapped, public schools, private practice, nursing homes, special services agencies

SPECIALITIES: psychiatry, geriatrics, mental retardation, pediatrics

RELATED OCCUPATIONS: musician, music teacher, special education teacher, occupational therapist, recreational therapist

INFORMATION SOURCE: National Association for Music Therapy, Inc.
P. O. Box 610, Lawrence, Kan. 66044

EDUCATION SOURCE: Louisiana

Loyola University, 6363 St. Charles Avenue, New Orleans, La. 70118; Xavier University, 7325 Palmetto Street, New Orleans, La. 70125

Pre-Music Therapy

Delgado College, Allied Health Division, 615 City Park Avenue, New Orleans, La. 70160; Louisiana State University, Baton Rouge, La. 70803

Mississippi

William Carey College, Hattiesburg, Miss. 39401

MEDICAL RECORD ADMINISTRATOR RRA

JOB DESCRIPTION

The registered record administrator is responsible for the acquisition and storage of a completed medical record on each patient cared for by the medical facility. The medical record administrator's duties include:

1. planning record retention and retrieval systems and supervising their use
2. making records available quickly for use by members of the medical team and to other authorized persons, including health officials, insurance companies, and legal professionals
3. supervising the securing and compilation of statistical information to be used for medical research or for improvement of medical care and community health by public officials
4. preparing periodic reports, including number of deaths and births, admission and discharge data, out-patient services rendered, treatment analysis data
5. representing the medical facility in court cases involving the patient's record
6. performing administrative and supervisory duties
7. serving as a member of medical treatment team, advising the hospital administrator of professional needs and offering suggestions for quality patient care.

EQUIPMENT USED: typewriter and other office equipment, computer, microfilm and microfiche equipment, etc.

EDUCATION/TRAINING

1. **High School:** English, mathematics, biology, basic secretarial skills, foreign language
2. **Advanced:**
   a. completion of an approved 4-year program in medical records administration, or
   b. completion of a one-year certificate course following receipt of a bachelor' degree in liberal arts and science

Medical Record Administrator **RRA**

EDUCATION/TRAINING cont'd

c. plus, successful completion of an examination administered by the Education and Registration Committee of the American Medical Record Association

COURSEWORK: anatomy, physiology, fundamentals of medical science, medical terminology, medical record science, statistics, medical law, ethics, hospital organization and administration, data processing

INTEREST/APTITUDE

1. good communication and writing skills
2. capacity for patience; thorough and detailed work effort
3. good moral character due to the confidentiality of the patients' record
4. ability to work well with others: professionals, co-workers, and patients
5. good eyesight for recordkeeping, and good memory for details and spelling of medical terms and names

SALARY/WORKING CONDITIONS: $9,500-$15,000: work area varies from well-lighted, well-ventilated, spacious quarters to over-crowded, out-of-the-way areas; busy, efficient atmosphere; 40-hour work week which may include evening or weekend duty; a good job for physically handicapped individuals who meet the other requirements

JOB OPPORTUNITIES: hospitals, clinics, health centers, medical research organizations, nursing homes, public health agencies

RELATED OCCUPATIONS: medical librarian, hospital administrator medical assistant, computer programmer

INFORMATION SOURCE: American Medical Record Association,
875 North Michigan Avenue, Suite 1850,
John Hancock Center, Chicago, Ill. 60611

Medical Record Administrator RRA

EDUCATION SOURCE: Louisiana

Louisiana Tech University, Ruston, La. 71270; University of Southwestern Louisiana, Lafayette, La. 70501; Louisiana State University, Baton Rouge, La. 70803; Pre-Medical Records Administrator: Louisiana State University, Eunice, La. 70535

Mississippi

University of Mississippi Medical Center, Jackson, Miss. 39216; Pre-Medical Record Administrator: Mississippi Gulf Coast Junior College, Gautier, Miss. 39553; Mississippi Delta Junior College, Moorhead, Miss.38761; Northwest Mississippi Junior College, Senatobia, Miss. 38668; Hinds Junior College, Raymond, Miss. 39154; Itawamba Junior College, Fulton, Miss. 38843

ACCREDITED RECORD TECHNICIAN ART
(Medical Record Technician)

JOB DESCRIPTION

The medical record technician assists the medical record librarian in the technical work of maintaining medical records, reports, disease indices and statistics. The medical record technician:

1. reviews patient's record upon his discharge to see if it is complete and accurate
2. prepares the record for storage by labeling it according to the information storage system used
3. quickly retrieves records as needed
4. types medical reports of operations, X-ray or laboratory examinations, or special treatments given to patients
5. gathers and compiles hospital statistics --daily, monthly-- and special reports
6. implements follow-up systems for patient care and special projects like Cancer Registry
7. may be required to testify in court as to the authenticity of information.

EDUCATION/TRAINING

1. High School: English, mathematics, biology, basic secretarial skills
2. Advanced:
    - a. 9-12-month program in accredited school or junior college, or
    - b. 2-year associate degree in science from an accredited junior college
    - c. plus, completion of a correspondence course in medical record procedures offered by the American Medical Record Association
    - d. plus, successful completion of a two-part examination given by the National Accreditation Examination section of the Medical Reco[illegible]ociation

COURSEWORK: English, anatomy and physiology, microbiology, psychology, medical record science, medical terminology, typing, data processing

INTEREST/APTITUDE

1. good communication and writing skills
2. capacity for patience; thorough and detailed work effort
3. good moral character due to the confidentiality of the patient's record
4. ability to work well with others: professionals, co-workers and patients

SALARY/WORKING CONDITIONS: $6,000-$10,000; work area varies from well-lighted, well-ventilated, spacious quarters to over-crowded, out-of-the-way areas; busy, efficient atmosphere; 40-hour week may include evening or weekend shifts; good job for physically handicapped individuals who meet other requirements

JOB OPPORTUNITIES: hospitals, clinics, health centers, medical research organizations

RELATED OCCUPATIONS: medical record administrator, medical transcriber, medical assistant, medical secretary, computer programer, medical librarian

INFORMATION SOURCE: American Medical Record Association
875 North Michigan Avenue
Suite 1850, Chicago, Ill. 60611

EDUCATION SOURCE: Hinds Junior College, Allied Health Programs, Raymond, Miss. 39154

Allied Health/NOPS
7/76

REGISTERED PHARMACIST (R.Ph.)

JOB DESCRIPTION

The pharmacist is responsible for compounding and dispensing medicine on the order of a physician or other qualified practitioner. He :

1. understands the physical and chemical properties of drugs and how they behave in the body's systems
2. understands how a particular drug will affect a human being, alter the course of a disease, and react with other drugs being taken
3. understands how a drug may affect laboratory tests of blood and other human tissues
4. selects and purchases all medicines used by the pharmacy or institution
5. educates the public and other health professionals in the proper use of drugs
6. maintains proper control over dangerous and habit-forming drugs
7. maintains records, files reports,performs administrative and supervisory duties.

EDUCATION/TRAINING

1. High School : English,biology,physics,mathematics, economics and typing are helpful

2. Advanced :
   - a. five year program leading to a degree of bachelor of science in pharmacy, or
   - b. six year program leading to the degree of doctor of pharmacy, or
   - c. pre-pharmacy course plus a mininum of three years of professional education acquired at an accredited college of pharmacy
   - d. plus, most states require a period of practical experience before eligibility to take the State Registry Examination

INTEREST/APTITUDE

1. dedicated, dependable, and unquestionably honest
2. accuracy, orderliness, and cleanliness are very important qualities
3. enjoys working with people
4. better-than-average intelligence

SALARY/WORKING CONDITIONS

$12,500-$30,000; 40 hour week with "on-call" duties, clean,well-lighted and ventilated work area; safety precautions must be observed for controlled substances (which include narcotics) - presentday danger of robbery; uniform may be required

JOB OPPORTUNITIES

independent pharmacies, hospitals, health center, government hospitals, health agencies, colleges and universities; community hospital, drug research, medical service representative, administration

INFORMATION SOURCE :

Association of Colleges of Pharmacy
4630 Montgomery Avenue, Suite 201
Bethesda, MD 20014

EDUCATION SOURCE :

Louisiana
Northeast Louisiana Technical College, Dept. of Allied Health Sciences
University Avenue, Monroe, LA 71209
Xavier University of Louisiana , 7325 Palmetto Street
New Orleans, LA 70125

Pre-Pharmacy Programs
Northwestern State University, Natchitoches, LA 71457
Loyola University 6363 St.Charles Avenue, New Orleans, LA 70118
University of New Orleans, Lakefront Drive, New Orleans,LA 70122
Louisiana Tech, Ruston, LA 71270
Nicholls State University, P.O. Box 2004,University Station,
Thibodaux,LA 70301
Louisiana State University, Baton Rouge, LA 70803
University of Southwestern Louisiana,University Avenue,Lafayette,LA 70501

REGISTERED DIETITIAN R.D.

JOB DESCRIPTION

The registered dietitian provides nutritional care to individuals and groups, applying principles of management to planning and directing food service programs. The objective is to serve attractive, satisfying, nutritionally adequate food for the individual patient's need. The dietitian is:

1. responsible for all food service within the hospital, patient and staff
2. writes specifications for the purchase of food and food service equipment
3. modifies menus for individual needs
4. confers with physicians about the patients' food
5. counsels patients on their eating habits and food requirements upon discharge
6. participates in the hiring, training, and supervision of food service personnel
7. formulates and executes departmental policy, makes reports and maintains records
8. participates in research projects involving nutritional studies or may conduct educational programs.

EDUCATION/TRAINING

1. High School: mathematics, chemistry, biological and social sciences, health, home economics; business courses would be helpful
2. Advanced:
    - a. bachelor's degree with a major in foods and nutrition or in institutional management, or
    - b. completion of an approved internship program; 6-18-months duration, or
    - c. bachelor's degree from a college or university with an approved program in dietetics

d. successful completion of a national examination given by the American Dietetic Association

e. registration maintained by earning continuing education credits

COURSEWORK: physical and biological sciences, behavioral and social sciences, communication sciences, chemistry, family and community nutrition, nutrition in health and disease, purchasing and equipment selection

INTEREST/APTITUDE

1. interest in food and appreciation for cooking
2. interest in teaching and sharing knowledge
3. good physical condition; willingness to be on-the-go
4. management ability

SALARY/WORKING CONDITIONS: $7,500-$11,800; 40-hour week with evening and weekend shifts possible; day shift often 6:00 a.m. to 4:30 p.m.; clean, highly-efficient work area; safety precautions essential for sanitation and personal safety; part-time and consultants positions available; uniform required

JOB OPPORTUNITIES: hospitals, university and school food service, neighborhood health centers, child care centers, military and government services, retirement and children's homes, industrial and commercial organizations, food companies, Peace Corps

SPECIALITIES: administration, clinical, education, research, nutrition

RELATED OCCUPATIONS: sanitarian, nutritionist, home demonstration agent, restauranteur, administrator

INFORMATION SOURCE: The American Dietetic Association
620 North Michigan AVenue, Chicago,
Ill. 60611

EDUCATION SOURCE: Louisiana

Grambling College, Grambling, La. 71245; Louisiana Tech University, Ruston, La. 71270; Louisiana State University, Baton Rouge, La. 70803; Northeast State University, Monroe, La. 71201; Northwestern State University, Nachitoches, La. 71457; St. Mary's Dominican College, New Orleans, La. 70118; Southeastern Louisiana University, Hammond, La. 70401; Southern University, Baton Rouge, La. 70813; University of Southwestern Louisiana, Lafayette, La. 70501; Nicholls State University, Thibodaux, La. 70301

Mississippi

Mississippi State College for Women, Columbus, Miss. 39701; Mississippi State University, State College, Miss. 39762; University of Mississippi, Oxford, Miss. 38655; The University of Mississippi, University, Miss. 38677; University of Southern Mississippi, Hattiesburg, Miss. 39401

DIETETIC TECHNICIAN

JOB DESCRIPTION

The dietetic technician works under the supervision of a dietitian and is involved directly in food administration and nutrition care services. The dietetic technician:

1. is responsible for food production
2. develops standard recipes and tests new food products
3. supervises the cafeteria for patients and all hospital personnel
4. maintains and improves standards of sanitation, safety, and security
5. develops job specifications and trains food service personnel
6. takes diet histories from patients
7. plans modified diets; guides patients in proper food selection and preparation after discharge
8. visits patients to evaluate the food received
9. assists in continuity of patient care and in research studies.

EDUCATION/TRAINING

1. High School: home economics, biology, chemistry, typing, business math
2. Advanced:
    a. two-year associate degree program for dietetic technicians in an accredited junior or community college
    b. plus, successful experience under a registered dietitian
    c. no certification or license required at this time

COURSEWORK: English, biology, social science, speech, recordkeeping, nutrition, food science, sanitation and safety

INTEREST/APTITUDE

1. appreciation of quality food
2. interest in teaching and sharing knowledge with others
3. skill in management
4. capacity to work hard and under pressure
5. good communication ability
6. willingness to stand and be "on-the-go" all day

SALARY/WORKING CONDITIONS: $5,200-$6,500; 40-hour week including day, evening, and weekend shift (8:00 a.m. - 4:00 p.m., 4:00 p.m. - 12:00 midnight, 12:00 midnight - 8:00 a.m.); clean, well-lighted, highly sanitary surroundings, with noise and heat due to equipment; uniform required

JOB OPPORTUNITIES: hospitals; health organizations engaged in teaching low-income or foreign born families about food purchasing, preparation and nutrition; schools; Armed Services; Veterans Administration

SPECIALITIES: nutritional care of the individual, food service administration

RELATED OCCUPATIONS: dietitian, nutritionist, restaurant or food store manager, sanitarian

INFORMATION SOURCE: American Dietetic Association,
620 North Michigan Avenue,
Chicago, Ill. 60611; The Hospital,
Institutional and Educational Food
Service Society, 430 North Michigan
Avenue, Room 622, Chicago, Ill. 60611

EDUCATION SOURCE: Nicholls State University, P. O. Box 2004,
University Station, Thibodaux, La. 70301

Hinds Junior College, Jackson, Miss. 39213

MEDICAL LIBRARIAN

JOB DESCRIPTION

The medical librarian is responsible for making printed medical knowledge readily available for those in health professions. His duties include:

1. ordering, classifying, indexing, and keeping files and loan records of materials available
2. assisting in research by tracking down information on a particular subject
3. obtaining translations of documents in foreign language
4. compiling bibliographies or providing a comprehensive review or abstract of a particular subject
5. being responsible for the patients' library in the hospital
6. assisting in rehabilitation services by providing book cart services, developing programs of interest for patients, and visiting new patients.

EDUCATION/TRAINING

1. High School: English, biology, chemistry, foreign language, basic secretarial skills, speech
2. Advanced:
    a. bachelor of arts or bachelor of science degree required for entrance to school of librarianship
    b. 12-month program leads to a master of science or a master of arts in librarianship
    c. completion of a Medical Library Association accredited course in medical literature (approximately 6 weeks in duration) (certification is desirable but not compulsory)

INTEREST/APTITUDE

1. a genuine respect for the printed word
2. sense of humor, well-developed curiosity, and good imagination
3. desire to understand and share other people's interest
4. good reading knowledge of one or more foreign language
5. interest in and knowledge of science and medicine

SALARY/WORKING CONDITIONS: $8,500-$15,000; 35-40-hour work week with possible evening and weekend duties; clean, well-ventilated and lighted work area; no uniform required

JOB OPPORTUNITIES: hospital; medical, dental, nursing, and allied health schools; research institutes; pharmaceutical houses; and most other health organizations

RELATED OCCUPATIONS; medical record administrator, medical record technician, hospital administrator, medical researcher

INFORMATION SOURCE: Medical Library Association, Inc.
919 North Michigan Avenue
Chicago, Ill. 60611

EDUCATIONAL SOURCE: Louisiana State University, Baton Rouge, La. 70803

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BIOMEDICAL ENGINEER

JOB DESCRIPTION

The biomedical engineer designs and develops the instruments used by members of the health professions. These engineers apply engineering principles to solve medical and health-related problems. The biomedical engineer:

1. conducts research to study the biological systems of humans, animals, and plants
2. develops new apparatus, processes, and techniques
3. applies new biological or medical theory and practices
4. studies materials such as silicone, plastic, stainless steel, etc., to determine whether the human body will tolerate them
5. designs and develops improved methods for observing and relieving physical ailments
6. designs and develops prosthetic and orthotic devices, such as the heart pacemaker, heart pump, artificial kidney, and artificial hip joint
7. applies computer science to medical science and diagnostic methods
8. insures that all electrical-electronic-mechanical equipment within the hospital is properly maintained and is certified safe
9. directs, trains, and supervises instrument technicians and medical personnel in the proper use of equipment
10. performs administrative and supervisory duties as required.

EDUCATION/TRAINING

1. High School: English, mathematics, science, speech, industrial arts
2. Advanced:
    a. successful completion of a bachelors degree in biomedical engineering from an accredited college or university
    b. plus, four years experience
    c. plus, successful completion of a state registration examination

COURSEWORK: humanities; biology; chemistry; life sciences; mathematics; physics; computer science; anatomy and physiology; and specialized courses in the principles of transducers, computation, systems design and analysis, fundamentals of biosciences, living systems, health care engineering, and biophysical phenomena

INTEREST/APTITUDE

1. possess scientific aptitude, and analytical mind, a cooperative personality, iniative, decisiveness, and patience
2. desire to work with people and to help the sick and injured
3. good hand-eye coordination
4. ability to express himself well in writing and orally, including the ability to explain the theory and application of biomedical equipment to non-technical personnel

SALARY/WORKING CONDITIONS: $9,000-$20,000: 40-hour week with occasional overtime; clean, well-lighted and ventilated work area; low-noise level due to equipment utilized; safety precautions must be strictly adhered to; uniform may be required

JOB OPPORTUNITIES: hospitals, private industry, Federal and state government, research laboratories, colleges and universities

SPECIALITIES: research, design and development, computer science

RELATED OCCUPATIONS: chemical engineer, electronic engineer, nuclear engineer, civil engineer and aeronautical engineer, prosthetist/orthotist, dentist, radiologic technologist, respiratory therapist, computer systems analyst

INFORMATION SOURCE: Biomedical Engineering Society, Box 1600, Evanston, Ill. 60204; National Association of Bioengineers, Incorporated, 5500 Wabash Avenue, Terre Haute, Ind. 47803; Alliance for Engineering in Medicine and Biology, 5454 Wisconsin Avenue, Chevy Chase, Md. 20015

EDUCATION SOURCE: Louisiana State University, Baton Rouge, La. 70803
Tulane University, New Orleans, La. 70112

Mississippi State University, University of Medical Center, Jackson, Miss. 39216

Allied Health/NOPS
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REGISTERED SANITARIAN
(Environmentalist)

R.S.

JOB DESCRIPTION

The sanitarian interprets and enforces laws regarding environmental standards. The sanitarian is trained to:

1. recognize and anticipate sanitation hazards, calling them to the attention of local authorities and the general public
2. promote improved environmental conditions, involving sewage disposal, recreational facilities, and public health facilities
3. analyze reports of inspections and investigations made by other environmental health specialists
4. conduct investigations and give evidence in court cases involving public health regulations
5. advise government officials on environmental health matters and drafting health laws and regulations
6. work closely with other health specialist to investigate and prevent the outbreak of disease, plan for civil defense and emergency disaster aid, make public health surveys, and conduct health education programs.

EDUCATION/TRAINING

1. High School: science, mathematics, speech, English, government, economics
2. Advanced:
   a. 4-year bachelor degree program in sanitary, environmental, physical, or biological science, plus
   b. some states require one or two years of experience before applicants can qualify to take the registration examination
   c. and, successful completion of an oral examination given by the State Board of Examiners (some states also require a written examination) for registration

COURSEWORK: humanities, social science, mathematics, chemistry, physics, biology, microbiology, biostatistics, epidemiology, community health education, public health organization and administration, environmental health

Registered Sanitarian R.S.
(Environmentalist)

INTEREST/APTITUDE

1. desire to safeguard man's environment
2. ability to work in unpleasant physical surroundings, such as a sewage disposal facility
3. good manual dexterity and mechanical aptitude
4. reliable and responsible; possess good communication skills and administrative and supervisory abilities

SALARY/WORKING CONDITIONS: $7,500-$15,000: 40-hour week with overtime and emergency duty, work may involve working in unpleasant surroundings for short periods of time

JOB OPPORTUNITIES: public health agencies, agricultural departments, private industry, hospitals, trade associations, colleges and universities, research facilities

RELATED OCCUPATIONS: administrative, business, and consultative positions; curator, urban planner, accountant, underwriter, budget consultant, contract clerk training supervisor, freight traffic consultant, lobbyist, literary agent, dietitian, store manager

INFORMATION SOURCE: National Association of Sanitarian, Lincoln Building, 15550 Lincoln Street, Denver, Colo. 80203; National Environmental Health Association, 1600 Pennsylvania Street, Denver, Colo. 80203; American Public Health Association, 1790 Broadway Street, New York, N. Y. 10010

EDUCATION SOURCE:

Louisiana

Louisiana State University, Baton Rouge, La. 70803; McNeese State College, Lake Charles, La. 70601; Graduate Program: Tulane University, New Orleans, La. 70118

Mississippi

Mississippi Valley State College, Itta Bena, Miss. 38941; University of Southern Mississippi, Hattiesburg, Miss. 39401

ENVIRONMENTAL HEALTH TECHNICIAN

JOB DESCRIPTION

The environmental health technician assists the professional sanitarian by performing the more routine tasks required in carrying out an environmental sanitation program. The technician's duties include:

1. collecting water, sewage, and various other samples in connection with field investigations
2. conducting preliminary investigations into nuisance complaints, such as overflowing sewage, garbage, odors, and dead animals
3. conducting routine inspections and investigations in connection with animal bites, rodent control, and flea eradications
4. maintaining records of work performed and reporting findings to the sanitarian for disposition
5. participating in field activities associated with sanitary surveys of private premises
6. performing related work and special assignments as required.

EDUCATION TRAINING

1. High School: science, mathematics, speech, English, government, economics
2. Advanced:
    a. two-year associate degree program in environmental health technology from an approved junior college or vocational school, or
    b. two years of sub-professional experience in environmental sanitation; public health; a medical, clinical, or chemical laboratory; or as a medical corpsman
    c. plus, successful completion of an examination given by the State Board of Examiners

COURSEWORK: humanities, social science, mathematics, biological sciences, community health, environmental health

INTEREST/APTITUDE

1. desire to safeguard man's environment

2. ability to work in unpleasant physical surroundings, such as a sewage disposal facility

3. good manual dexterity and mechanical aptitude

SALARY/WORKING CONDITIONS: $5,500 - $10,000: 40-hour week with overtime and emergency duty; duties may involve working in unpleasant surroundings for short periods of times

JOB OPPORTUNITIES: public health agencies, agricultural departments, private industry, hospitals, research facilities

RELATED OCCUPATIONS: sanitarian, dietitian, industrial hygienist, dairy technologist, veterinarian assistant, safety engineer

INFORMATION SOURCE: National Association of Sanitarian, Lincoln Building, 15550 Lincoln Street, Denver, Colo. 80203; National Environmental Health Association, 1600 Pennsylvania Street, Denver, Colo. 80203; American Public Health Association, 1790 Broadway Street, New York, N. Y. 10010

EDUCATION SOURCE: Delgado Junior College, 615 City Park Avenue, New Orleans, La. 70119

PHYSICIANS' ASSISTANT-CERTIFIED PA

JOB DESCRIPTION

The physician assistant is defined as a "skilled person qualified by academic and practical (clinical) training to provide patient services under the supervision and direction of a licensed physician who is responsible for the performance of that assistant." The duties of the physician assistant include:

1. taking patient histories, performing physical examinations, and recording pertinent data for the physician
2. performing routine laboratory and therapeutic procedures, including blood and urine testing, EKG recording, giving injections, suturing, and making casts
3. instructing and counseling patients on physical and mental health, on diet, disease, therapy, and normal growth and development
4. accompanying the physician on patient rounds
5. following-up those patients who require continuing care at home or in nursing homes
6. maintaining contact with community health facilities, agencies, and resources
7. handling emergency situations in the physician's absence.

EDUCATION/TRAINING

1. High School: English, speech, mathematics, social science, general science, biology, and chemistry
2. Advanced:
    - a. two-year college coursework and/or health related training received in a civilian or military setting
    - b. plus, acceptable ACT or SAT examination scores
    - c. plus, three character references
    - d. plus, successful completion of a one-four-year program from an approved medical school, community or junior college, or allied health college
    - e. plus, successful completion of the National Certification Examination for Assistants to the Primary Care Physician given by the

National Board of Medical Examiners
f. plus, re-certification every two years
by accumulating 100 hours of continuing
education credits

INTEREST/APTITUDE

1. have a strong desire to care for the sick and injured
2. possess good character, a pleasant personality, sincerity, and personal and professional ethics
3. be willing to study continually to keep up with medical advances
4. be emotionally stable, and be able to make decisions in an emergency
5. be adaptable and able to take orders
6. be in good health and have physical stamina; be willing to be on-the-go continually

SALARY/WORKING CONDITIONS: $10,000-$15,000: 40-60-hour work week, with evening and weekend "on-call" duty; clean, well-lighted and ventilated work area; adherence to strict asceptic and safety precautions are essential; uniform required

JOB OPPORTUNITIES: private medical offices, hospitals, clinics, nursing homes, ambulance companies, mental health agencies, home-care programs, medical schools, public health agencies, private industries

SPECIALITIES: primary care, orthopedic and general surgery, urology, ophthalmology, anesthesiology, obstetrics, gynecology, pathology

RELATED OCCUPATIONS: nurse, X-ray technician, dental hygienist, respiratory therapist, pharmacist, veterinarian, dentist, physician, dietitian, medical technologist

INFORMATION SOURCE: Association of Physician Assistant Programs, 2120 L Street, N. W., Suite 210, Washington D.C. 20037; American Medical Association, 535 North Dearborn Street, Chicago, Ill. 60610; American Association of Physicians Assistants, 488 Madison Avenue, New York, N. Y. 10022

EDUCATION SOURCE: Louisiana State University, Baton Rouge, La. 70803

* University of Mississippi Medical Center, Jackson, Miss. 39216

* Program accredited by the American Medical Association
Allied Health/NOPS

MEDICAL SECRETARY

JOB DESCRIPTION

The medical secretary manages the doctor's office by performing routine clerical and administrative duties. These duties include:

1. answering the telephone and making appointments
2. greeting patients, answering their questions, and taking their medical histories
3. filing departmental records, including patient histories, and reports
4. completing insurance forms
5. maintaining office equipment and supply levels
6. and may include taking technical dictation, transcribing from notes or a dictaphone machine, reviewing medical journals, and proofreading articles, lectures, and manuscripts.

EDUCATION/TRAINING

1. High School: English, speech, biology, basic secretarial skills
2. Advanced:
    a. associate degree from an accredited junior college, or
    b. certificate from an accredited business or secretarial school
    c. no state or national certification is required at present

COURSEWORK: typing, shorthand, English, science, accounting, bookkeeping, mathematics, dictaphone, medical terminology

INTEREST/APTITUDE

1. sincere desire to help people
2. pleasant personality, neat appearance, and the ability to get along well with people
3. ability to follow directions and exercise good judgment
4. good physical condition, including vision and hearing abilities
5. good spelling, verbal ability, and typing skills
6. good moral character: will be handling confidential records

SALARY/WORKING CONDITIONS: $4,800-$8,500: 40-hour week with possible evening and weekend duty; clean, well-lighted and ventilated office; uniform may be required; part-time positions available.

JOB OPPORTUNITIES: medical office, dental office, veterinary office, hospital, clinic, research laboratory, medical supply company, medical library

RELATED OCCUPATIONS: medical assistant, accredited record technician, medical transcriber, medical record administrator

INFORMATION SOURCE: American Association of Medical Assistants One Wacker Drive, Chicago, Ill. 60601; United Business Schools Association, 1730 M Street, N. W., Washington, D. C. 20036

EDUCATION SOURCE: Louisiana

St. Mary's Dominican College, 7214 St. Charles Avenue, New Orleans, La. 70118; Delgado Junior College, 615 City Park Avenue, New Orleans, La. 70160

Mississippi

Saints Junior College, Lexington, Miss. 39095;
Hinds Junior College, Raymond, Miss. 39154;
Itawamba Junior College, Fulton, Miss. 38843;
Mary Holmes Junior College, West Point, Miss. 39773;
Northwest Mississippi Junior College, Senatobia, Miss. 38668; Perkinston College, Perkinston, Miss. 39573

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CERTIFIED MEDICAL ASSISTANT CMA

JOB DESCRIPTION

The medical assistant assists the doctor in managing his office efficiently and performs a variety of clinical and administrative duties. He:

1. receives patients and obtains medical histories
2. answers the telephone and schedules appointments
3. greets representatives from various firms selling medical supplies
4. types medical reports and insurance forms
5. arranges hospital admissions
6. handles billing and collecting
7. prepares patients for examination or treatment and stands by to assist the doctor
8. performs routine laboratory tests.

EDUCATION/TRAINING

1. High School: English, speech, mathematics, science, basic secretarial skills
2. Advanced:
    a. one or two-year program from an approved community of junior college
    b. plus, three years of experience
    c. plus, certification by the American Association of Medical Assistants (AAMA)

COURSEWORK: English, shorthand, typing, bookkeeping, mathematics, social science, anatomy and physiology, medical terminology, medical law and ethics, sterilization skills, examination room techniques

INTEREST/APTITUDE

1. sincere desire to help people
2. personal qualities: adaptability, kindness, positive attitude, discretion, good judgment, neatness and accuracy
3. willingness and ability to be "on-the'go" much of the time
4. good spelling and verbal ability

SALARY/WORKING CONDITIONS: $6,000-$8,300; 40-hour week usually including evenings and weekends; clean, well-lighted and ventilated office; uniform usually required; part-time positions available

JOB OPPORTUNITIES: doctor's office, medical clinics, hospitals, research laboratories

SPECIALITIES: clinical (CMA-C), administrative (CMA-A), pediatric (CMA-Ped), administrative/clinical (CMA-AC); clinical/pediatric (CMA-CPed); administrative/clinical/pediatric (CMA-ACPed)

RELATED OCCUPATIONS: nurse, nurse aide, medical librarian technician, medical secretary, medical technologist, medical records technician

INFORMATION SOURCE: American Association of Medical Assistants
One EastWacker Drive, Suite 1510, Chicago, Ill. 60601

EDUCATION SOURCE: Louisiana

None

Mississippi

Northeast Mississippi Junior College, Booneville, Miss. 38829

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CERTIFIED OPERATING ROOM TECHNICIAN C.O.R.T.

JOB DESCRIPTION

The operating room technician, under the supervision of doctors and registered nurses, helps treat patients in hospital operating rooms and emergency wards. The operating room technician performs many tasks previously entrusted to professional nurses. These tasks are:

1. helping to set up the operating room supplies and instruments

2. handing instruments and supplies to the physician during surgery

3. assisting with post operative care in the recovery room.

EDUCATION/TRAINING

1. High School: science, biology, mathematics, health
2. Advanced:
   - a. twelve-month hospital program in operating room technology
   - b. or, two-year program from an accredited junior college
   - c. plus, clinical experience
   - d. plus, successful completion of a certification examination given by the Association of Operating Room Technicians (The exam has three sections and is multiple choice.)

COURSEWORK: anatomy and physiology, bacteriology, principles of sterilization, care of equipment, operating room skills, anesthesia methods, orthopedics, cardiology, neurology

INTEREST/APTITUDE

1. ability to tolerate the sight of blood and surgical procedures
2. ability to work well as a team member
3. ability to do careful and efficient work under pressure
4. cheerful and friendly personality
5. ability to meet patients' need for comfort, safety, and reassurance
6. good physical and emotional health; willingness to spend long periods of time standing

SALARY/WORKING CONDITIONS: $6,000-$7,500: 40-hour work week with "on-call" duty; clean and comfortable area; aseptic techniques and safety precautions must be observed; uniform required

JOB OPPORTUNITIES: clinics, hospitals, dental offices and clinics

RELATED OCCUPATIONS: nursing, physician, physician assistant, dental assistant, medical assistant

INFORMATION SOURCE: Association of Operating Room Technicians, Inc.
1100 West Littleton Boulevard, Suite 201
Littleton, Colo. 80120

EDUCATION SOURCE: Hospital or Vocational Programs in Louisiana

Sowela Technical Institute, 501 Broad Street, Lake Charles, La. 70601; Charity Hospital of Louisiana, 1532 Tulane Avenue, New Orleans, La. 70140; Eye, Ear, Nose & Throat Hospital, 145 Elk Place, New Orleans, La. 70113; Ochsner Foundation Hospital, 1516 Jefferson Highway, New Orleans, La. 70121

Louisiana Colleges

Northeast Louisiana Technical College, Department of Allied Health Sciences, University Avenue, Monroe, La. 71201

Mississippi Colleges

Itawamba Junior College, Fulton, Miss. 38843;
Hinds Junior College, Jackson, Miss. 39213;
Hinds Junior College, Raymond, Miss. 39154;
Mississippi Gulf Coast Junior College, Gautier, Miss. 39553; Meridian Junior College, Meridian, Miss. 39301

OPTOMETRIC TECHNICIAN

JOB DESCRIPTION

The optometric technician assists the optometrist in the management of his office and performs a variety of clinical and administrative duties. His duties are to:

1. schedule appointments, maintain records, order supplies
2. greet and make patients comfortable, take medical history and background information
3. test for color perception, visual fields, sharpness of vision, depth perception, eyeball tension, and other routine examinations
4. interpret prescriptions and order the prescribed vision aids
5. assist the patient in selecting eyeglass frames
6. supervise eye exercises as prescribed by the optometrist
7. instruct patients on insertion, removal, and care of contact lenses
8. perform basic laboratory procedures, including the edging of contact lenses and repairing of eyeglass frames
9. may, under certain circumstances, be required to grind lenses according to prescription
10. maintain departmental records, equipment and supply levels.

EDUCATION/TRAINING

1. High School: physics, algebra, biology, science, English, speech, basic secretarial skills
2. Advanced:
    a. 2-year program from accredited junior or community college, technical college or university
    b. registration by the American Optometric Association's National Registry of Paraoptometric Personnel

COURSEWORK: algebra, physics, accounting, typing, psychology, English, anatomy and physiology of the eye, ophthalmic optics, vision care and treatment, examination procedures, laboratory procedures, and clinical experience

Optometric Technician

INTEREST/APTITUDE

1. warm, sincere personality
2. clean, well groomed appearance
3. good manual dexterity and vision
4. accuracy in laboratory work
5. ability to communicate well

SALARY/WORKING CONDITIONS: $6,000-$10,000: 40-hour week with some evening and weekend work possible; clean, well-lighted office and laboratory; low level noise generated by some machines; uniform may be required

JOB OPPORTUNITIES: private offices, optical laboratories, optometric equipment or supply firms

SPECIALITIES: ophthalmic laboratory technician, dispensing technician, customer service representative, visual training technician, chairside assistance

RELATED OCCUPATIONS: orthoptist, optical technician, optician, optometrist, opthalmologist

INFORMATION SOURCE: American Optometric Association, 7000 Chippewa Street, St. Louis, Mo. 63119

EDUCATION SOURCE: Northwest Mississippi Junior College, Senatobia, Miss. 38668

ORTHOPTIST

JOB DESCRIPTION

The orthoptist is a specialized therapist who works with children and adults to correct crosseyes or related visual disorders. The orthoptist works under the supervision of an ophthalmologist and performs the following duties:

1. assists the ophthalmologist in eye examinations
2. performs routine tests to measure muscle flexibility, focusing ability, and eye coordination
3. supervises prescribed exercises to correct visual defects
4. instructs patient and/or parents in home exercises and care
5. participates in research and educational programs
6. maintains departmental records, equipment, and supply levels
7. performs administrative and supervisory duties as required

EDUCATION/TRAINING

1. High School: science, including biology and physics; mathematics; English; psychology, if available
2. Advanced:
    a. must complete two years of general college coursework prior to specialized training in orthoptics
    b. plus, successful completion of a 15-24-month program at a hospital or university training center
    c. or, completion of a 15-month preceptorship, combining practical training under the direct supervision of a certified Orthoptist with a 2-month basic course in orthoptics sponsored by the American Orthoptic Council
    d. plus, successful completion of a

written, oral, and practical certification examination conducted by the American Orthoptic Council

INTEREST/APTITUDE

1. have a sincere interest in people, especially children, and the desire to help them with their visual problems
2. be patient, understanding, and emotionally stable
3. have the ability to inspire confidence and to maintain the patient's interest
4. possess ingenuity, resourcefulness, and scientific curiosity

SALARY/WORKING CONDITIONS: $10,000-$15,000: 40-hour week with possible evening and weekend duty; clean, pleasant, well-lighted and air conditioned surroundings equipped with special devices and aids; most work is with individual patients, often children; uniform may be required

JOB OPPORTUNITIES: private office, hospitals, clinics, public health agencies

RELATED OCCUPATIONS: optometric technician, optician, optometrist, opthalmologist

INFORMATION SOURCE: American Orthoptic Council
555 University Avenue
Toronto, Canada M5G 1X8

EDUCATION SOURCE: Tulane Medical School
1430 Tulane Avenue
New Orleans, La. 70112

CERTIFIED DENTAL ASSISTANT CDA

JOB DESCRIPTION

The dental assistant assists the dentist in managing his office and performs a variety of clinical and administrative duties. He:

1. greets and makes patients comfortable, preparing them for examination, treatment, or surgery
2. answers the telphone, makes appointments, orders supplies, handles business transactions, keeps records, sends out monthly statements, and maintains tax records
3. sterilizes instruments and assists dentist by handing him the proper instruments and materials during examination and treatment
4. prepares solutions, mixes fillings and cement used in treatment
5. observes patient for any unusual reactions
6. assists in taking and processing X-ray films
7. pours and finishes plaster models of patient's teeth from impressions made by the dentist
8. gives post-treatment instruction and dismisses the patient.

EDUCATION/TRAINING

1. High School: biology, mathematics, social science, speech, English, typing and other secretarial skills
2. Advanced:
    - a. one-two-year program from college or technical institute offering an accredited dental assisting course
    - b. plus, one-two years experience as a dental assistant
    - c. plus, successful completion of an examination, with written and clinical parts, given by the

Certifying Board of the American Dental Assistants' Association. (Continuing education is required for renewal of certification.)

COURSEWORK: English, social science, communication skills, dental radiology, dental anatomy, nutrition, microbiology, pharmacology, oral pathology, dental materials, clinical practice

INTEREST/APTITUDE

1. desire to help others
2. pleasant, cheerful personality, neat and clean appearance
3. good verbal ability, pleasant voice
4. basic secretarial and bookkeeping skills
5. good health, ability to stand for long periods of time
6. good finger and hand coordination, must learn to use right and left hands equally well

SALARY/WORKING CONDITIONS: $4,000-$7,500: 40-hour week with possible Saturday and emergency work; part-time work available; clean, well-lighted and ventilated office; uniform required

JOB OPPORTUNITIES: dental office, hospitals, public health agencies, Armed Services, Veterans Administration

SPECIALITIES: endodontics, oral pathology, oral surgery, orthodontics, pedodontics, periodontics, prosthodontics, public health dentistry

RELATED OCCUPATIONS: dentist, dental hygienist, dental laboratory technician, medical assistant

INFORMATION SOURCE: American Dental Assistant's Association
211 East Chicago Avenue, Chicago, Ill.60611

EDUCATION SOURCE: Itawamba Junior College, P.O.Box 302,
Tupelo, Miss.38802

Little Rock Adult Vocational School, 14th
& Scott Streets, Little Rock, Ark. 72202

DelMar Technical Institute,101 Baldwin,
Corpus Christi, Tex.78404; El Centro College
Main & Lamar Streets, Dallas, Tex. 75202

REGISTERED DENTAL HYGIENIST R.D.H.

JOB DESCRIPTION

The dental hygienist provides oral hygiene services, dental health education, and nutritional counseling to patients. He:

1. cleans and polishes teeth to prevent gum disease and tooth decay
2. applies fluoride to the teeth to prevent decay
3. instructs in dental health education: how to care for the teeth and gums, proper diet to prevent disease and decay, etc.
4. provides the dentist with diagnostic information
5. may X-ray teeth to help dentist in finding tooth decay, bone loss, tumors or cysts, or fractures.

EDUCATION/TRAINING

1. High School: Recommended coursework:
    - a. chemistry, biology, mathematics, English
    - b. speech, foreign language
    - c. plus, successful completion of a dental hygiene aptitude test administered by the American Dental Hygienist's Association three times a year
2. Advanced:
    - a. four-year college program with bachelor's degree in dental hygiene, or
    - b. two-year program in an accredited junior or community college
    - c. plus, successful completion of an examination administered by the State Board of Dental Examiners, and often the National Board of Dental Hygiene Examination is required

COURSEWORK: liberal arts (English, speech, psychology, sociology, etc.), anatomy, physiology, histology, microbiology, pathology, chemistry, dental radiology, pharmacology, periodontics, oral pathology, oral histology, dental materials

INTEREST/APTITUDE

1. clean, well-groomed appearance
2. warm, friendly personality with a sincere desire to help others
3. good health and emotional stability, good eyesight
4. willingness to stand most of the day
5. manual dexterity and coordination

SALARY/WORKING CONDITIONS: $6,500-$7,500: 35-40-hour week which usually includes Saturday a.m.; part-time positions available; clean, well-lighted and ventilated office; X-ray safety precautions essencial; uniform required

JOB OPPORTUNITIES: private dental offices, dental clinics, public health agencies, hospitals, industrial clinics, public schools

SPECIALITIES: general office practice, periodontics, pedodontics, orthodontics, school health programs, hospital practice

RELATED OCCUPATIONS: dentist, physician, dental assistant, dental laboratory technician, nursing

INFORMATION SOURCE: American Dental Hygienists' Association
211 East Chicago Avenue, Chicago, Ill.60611

EDUCATION SOURCE: Louisiana
Northeast Louisiana Technical College, Department of Allied Health Sciences, University Avenue, Monroe, La. 71209; Loyola University, 6363 St. Charles Avenue, New Orleans, La. 70118

Pre-Dental Hygiene
University of New Orleans, Lakefront Avenue, New Orleans, La. 70122; Louisiana State University, Baton Rouge, La. 70803

Mississippi
University of Mississippi Medical Center, 2500 State Street, N., Jackson, Miss. 39216 (last two years); Northeast Mississippi Junior College, Cunningham Boulevard, Booneville, Miss. 38829

Allied Health/NOPS
7/76

CERTIFIED DENTAL TECHNICIAN CDT

JOB DESCRIPTION

The dental laboratory technician makes and repairs such dental devices as dentures, crowns, bridges, inlays, and braces, under the direction and according to the prescription of a licensed dentist. He:

1. makes dentures from a plastic powder or liquid, or from porcelain, to replace missing teeth
2. makes crowns and bridges from gold or plastic to replace missing parts of natural teeth
3. makes partial devices to replace only those teeth missing from the mouth
4. makes braces to correct crooked teeth.

EDUCATION/TRAINING

1. High School: mathematics, science, chemistry, art (including ceramics if available), shop, mechanical drawing
2. Advanced:
    a. two-year course from an accredited program for dental laboratory technician
    b. plus, five-years experience
    c. plus, successful completion of general and speciality examinations given by the Board of Certification

COURSEWORK: English, mathematics, biochemistry, dental construction, tooth construction, dental science, dental technology

INTEREST/APTITUDE

1. good eyesight with ability to recognize fine shades of color
2. patience and the ability to follow specific directions correctly
3. good finger dexterity for working with small tools and materials
4. artistic ability with liking for detail
5. willingness to spend most of the day sitting

SALARY/WORKING CONDITIONS: $6,000-$9,000: 40-hour week which may include overtime and weekend duty; clean, well-lighted and ventilated laboratory; some noise and odor due to equipment and materials used; little contact with public or pressure; good field for physically handicapped who meet other requirements

JOB OPPORTUNITIES: commercial dental laboratories, dental clinics, private businesses

SPECIALITIES: complete dentures, partial dentures crowns and bridges, ceramics, orthodontics

RELATED OCCUPATIONS: dentist, dental hygienist, dental assistant, jewelry diemaker, toolmaker, watchmaker, metalworker, optometric technician

INFORMATION SOURCE: National Association of Certified Dental Laboratories, 3801 Mount Vernon Avenue, Alexandria, Va. 22305

EDUCATION SOURCE: Mississippi
Itawamba Junior College, Fulton, Miss. 38843; Northwest Mississippi Junior College, Senatobie, Miss. 38668; Northeast Mississippi Junior College, Cunningham Boulevard, Booneville, Miss. 38829

Texas
Texas State Technical Institute, Waco, Tex. 76705; School of Health Care Sciences, USAF, MSDD/114, Sheppard Air Force Base, 76311 (enlisted personnel only)

VETERINARIAN

D.V.M.
or
V.M.D.

JOB DESCRIPTION

The veterinarian, who provides medical care to sick and injured animals, is trained to:

1. diagnose, treat, and control animal diseases and injuries
2. vaccinate animals against diseases
3. give advice on the care and breeding of animals
4. perform surgery
5. search for contagious diseases to prevent the outbreak and spread of diseases transmitted by animals to humans
6. inspect poultry, meat, and other foods for disease and contamination
7. participate in research and/or educational programs.

In addition, military veterinarians conduct research studies involving animals in space flights and travel, nuclear flight and ground feeding research, etc.

EDUCATION/TRAINING

1. High School: mathematics, biology, chemistry, physics, agriculture (if available)
2. Advanced:
   - a. two-year pre-veterinarian program from an approved college
   - b. plus, four-year program from an approved school of veterinary science
   - c. plus, successful completion of a state board examination. (Some states require practical experience under the supervision of a licensed veterinarian before taking the examination.)

COURSEWORK: pre-veterinary program: biology, chemistry, physics, anatomy and physiology, mathematics, agriculture, English, economics, speech, poultry science

veterinary medicine program: neuro-anatomy, histology and embryology, animal husbandry, botany, animal genetics, radiobiology, pathology, parisitology, pharmacology, general surgery, obstetrics, X-ray, toxicology, nutrition

INTEREST/APTITUDE

1. likes working with animals; gets along well with people
2. good student with an inquiring mind and keen powers of observation
3. good physical condition, hand coordination; good vision
4. willingness to be "on-the-go" most of the time
5. dependable; ability to work independently
6. ability to tolerate working with physically injured, diseased or infected animals

SALARY/WORKING CONDITIONS: $10.000-$15,000: 40-60-hour week which often includes "emergency" duty; exposed to adverse weather conditions, physical injury, disease and infection; work uniform required

JOB OPPORTUNITIES: private practice, military and government agencies, schools of veterinary medicine, agricultural colleges, livestock farms, zoos, animal food manufacturers, circuses

SPECIALITIES: large animal practice, mixed practice, small animal practice, teaching and research, public health, regulatory medicine, general practice, military

RELATED OCCUPATIONS: physician, sanitarian,health physicist, agronomist, geologist, optometrist, dentist, conservationist, medical researcher

INFORMATION SOURCE: American Veterinary Medical Association, 930 North Meacham Road, Schaumburg, Ill. 60172; Louisiana Veterinary Medical Association, 2003 Forsythe Street, Monroe, La. 71201; Agricultural Research Service, U.S. Department of Agriculture, Hyattsville, Md. 20782

EDUCATION SOURCE: **Louisiana**

Veterinary Medicine
*Louisiana State University, Baton, Rouge, La. 70803

Pre-Veterinary Programs
McNeese State University, Lake Charles, La. 70601; Northwestern State University, Natchitoches, La. 71457; University of New Orleans, Lakefront Drive, New Orleans, La. 70122; University of Southwestern Louisiana, University Avenue, Lafayette, La. 70501; Nicholls State University, P. O. Box 2004, University Station, Thibodaux, La. 70101; Tulane University, 6823 St. Charles Avenue, New Orleans, La. 70118

Mississippi
Mississippi State University, Mississippi State, Miss. 39762

Pre-Veterinary Programs
William Carey College, Hattiesburg, Miss. 39401

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* Training program accredited by the Veterinary Medical Association

ANIMAL TECHNICIAN
(Veterinary Technician)

JOB DESCRIPTION

The animal technician assists the veterinarian in the medical care of sick and injured animals. The technician is trained to:

1. obtain and record the animal's medical history
2. prepare the animal for examination and treatment
3. set out necessary instruments, equipment, and medication
4. collect specimens and perform certain laboratory procedures
5. apply dressings to wounds
6. care for and feed boarding animals
7. perform housekeeping chores, make appointments, maintain records, etc.

EDUCATION/TRAINING

1. High School: mathematics, biological science, health, English, speech, agriculture (if available)
2. Advanced:
   a. two-year program from an approved animal technology program, usually leading to an Associate of Arts degree
   b. registration by the Laboratory Animal Technician Certification Board of the American Association for Laboratory Animal Science (AALAS)

COURSEWORK: mathematics, anatomy and physiology, microbiology, sanitation and hygiene, nutrition, terminology, chemistry, laboratory procedures, office procedures, speech, English

INTEREST/APTITUDE

1. liking for animals

2. good physical condition; ability to be "on-the-go" most of the day
3. dependable; ability to work independently
4. gets along well with people

SALARY/WORKING CONDITIONS: $5,500-$7,500: 40-hour week with possible on-call duty; exposed to adverse weather conditions, physical injury, disease and infection; work uniform required

JOB OPPORTUNITIES: animal hospitals, private office, research laboratories, drug and food companies, animal production facilities, zoos, meat packing companies, military and government agencies

RELATED OCCUPATIONS: veterinarian, physician, dentist, physician's assistant, medical assistant, nursing, sanitarian

INFORMATION SOURCE: American Veterinary Medical Association
930 North Meacham Road
Schaumburg, Ill. 60172

EDUCATION SOURCE: *Northwestern State University
Natchitoches, La. 71457

Hinds Junior College
Raymond, Miss. 39154

* Accredited by American Veterinary Medical Association

APPENDIX C

SOURCES OF MATERIALS

SOURCES OF MATERIALS

PUBLICATIONS

Health Related Organizations

American Academy of Pediatrics
1801 Hinman Avenue, Evanston, Illinois 60201

American Academy of Physicians' Associates
2150 Pennsylvania Avenue, Room 356, Washington, D. C. 20037

American Association for Health, Physical Education and Recreation
1201 16th Street, N. W., Washington, D. C. 20036

American Association of Blood Banks
1828 L Street, N. W., Suite 608, Washington, D. C. 20036

American Association of Colleges of Pharmacy
4630 Montgomery Avenue, Suite 201, Bethesda, Maryland 20014

American Association of Medical Assistants
One East Wacker Drive, Chicago, Illinois 60601

American Association of Ophthalmology
1100 17th Street, N. W., Room 304, Washington, D. C. 20036

American Association for Respiratory Therapy
7411 Hines Place, Suite 101, Dallas, Texas 75235

American Cancer Society
219 East 42nd Street, New York, New York 10017

American College Health Association
2807 Central Street, Evanston, Illinois 60201

American College of Hospital Administrators
840 North Lake Shore Drive, Chicago, Illinois 60611

American Corrective Therapy Association
1781 Begen Avenue, Mountain View, California 94040

American Dental Assistants Association
211 East Chicago Avenue, Chicago, Illinois 60611

American Dental Association
211 East Chicago Avenue, Chicago, Illinois 60611

American Dental Hygienists' Association
211 East Chicago Avenue, Chicago, Illinois 60611

American Diabetes Association
18 East 48th Street, New York, New York 10017

American Dietetic Association
620 North Michigan Avenue, Chicago, Illinois 60611

American Foundation for the Blind
15 West 16th Street, New York, New York 10011

American Heart Association
44 East 23rd Street, New York, New York 10010

American Home Economics Association
2010 Massachusetts Avenue, N. W., Washington, D. C. 20036

American Hospital Association
840 North Lake Shore Drive, Chicago, Illinois 60611

American Industrial Hygiene Association
210 Haddon Avenue, Westmont, New Jersey 08108

American Lung Association
1740 Broadway, New York, New York 10019

American Medical Association
535 North Dearborn Street, Chicago, Illinois 60610

American Medical Record Association
875 North Michigan Avenue, Suite 1850, Chicago, Illinois 60611

American Medical Technologists
710 Higgins Road, Park Ridge, Illinois 60068

American Occupational Therapy Association
6000 Executive Boulevard, Suite 200, Rockville, Maryland 20852

American Optometric Association
7000 Chippewa Street, St. Louis, Missouri 63119

American Orthoptic Council
555 University Avenue, Toronto, Ontario, Canada

American Pharmaceutical Association
2215 Constitution Avenue, N. W., Washington, D. C. 20037

American Physical Therapy Association
1156 15th Street, N. W., Washington, D. C. 20005

American Society for Medical Technology
5555 West Loop, Houston, Texas 77401

American Society of Clinical Pathologists
2100 West Harrison Street, Chicago, Illinois 60612

American Society of Electroencephalographic Technologists
University of Iowa, Division of EEG and Neurophysiology
500 Newton Road, Iowa City, Iowa 52240

American Society of Radiologic Technologists
500 North Michigan Avenue, Suite 8, Chicago, Illinois 60611

American Speech and Hearing Association
9030 Old Georgetown Road, Washington, D. C. 20014

American Veterinary Medical Association
600 South Michigan Avenue, Chicago, Illinois 60605

Arthritis Foundation
1212 Avenue of the Americas, New York, New York 10036

Association of Medical Illustrators
Medical College of Georgia, Augusta, Georgia 30902

Association of Schools of Allied Health Professions
One Dupont Circle, Suite 300, Washington, D. C. 20036

Epilepsy Foundation of America
1828 L Street, N. W., Suite 406, Washington, D. C. 20036

Goodwill Industries of America
9200 Wisconsin Avenue, Washington, D. C. 20014

International Association of Milk, Food and Environmental
Sanitarians
P. O. Box 437, Shelbyville, Indiana 46176

Medical Library Association
919 North Michigan Avenue, Suite 2023, Chicago, Illinois 60611

Muscular Dystrophy Associations of American
810 Seventh Avenue, New York, New York 10019

National Association for Music Therapy
P. O. Box 610, Lawrence, Kansas 66044

National Association of Dental Laboratories
3801 Mount Vernon Avenue, Alexandria, Virginia 22305

National Council on the Aging
1828 L Street, N. W., Washington, D. C. 20036

National Cystic Fibrosis Research Foundation
3379 Peachtree Road, N. E., Suite 950, Atlanta, Georgia 30326

National Easter Seal Society for Crippled Children and Adults
2023 West Ogden Avenue, Chicago, Illinois 60612

National Environmental Health Association
1600 Pennsylvania Avenue, Denver, Colorado 80203

National Health Council, Incorporated
1740 Broadway, New York, New York 10019

National Hemophilia Foundation
25 West 39th Street, New York, New York 10018

National MEDIHC Program
Bureau of Health Resources Development
Federal Building, Room 514
7550 Wisconsin Avenue, Bethesda, Maryland 20014

National Multiple Sclerosis Society
257 Park Avenue South, New York, New York 10010

National Rehabilitation Association
1522 K Street N. W., Washington, D. C. 20005

National Society for the Prevention of Blindness
79 Madison Avenue, New York, New York 10016

Paraoptometric Guidance Department
American Optometric Association
7000 Chippewa Street, St. Louis, Missouri 63119

Registry of Medical Rehabilitation Therapists and Specialists
5308 Locust Street, North Little Rock, Arkansas 72116

Society of Nuclear Medical Technologists
1201 Waukegan Road, Glenview, Illinois 60025

Society of Nuclear Medicine
211 East 43rd Street, New York, New York 10017

United Cerebral Palsy Associations
66 East 34th Street, New York, New York 10016

Publishing Companies

American Hospital Association
840 North Lake Shore Drive, Chicago, Illinois 60611

American Legion National Headquarters
P. O. Box 1055, Indianapolis, Indiana 46206

American Medical Association
535 North Dearborn Street, Chicago, Illinois 60610

Arco Publishing Company, Incorporated
219 Park Avenue South, New York, New York 10003

Bobbs-Merrill Company, Incorporated
Educational Publishing Division
4300 West 62nd Street, Indianapolis, Indiana 46206

Chronicle Guidance Publishing, Incorporated
Moravia, New York 11318

C. C. Thomas
301-327 East Lawrence Avenue, Springfield, Illinois 62717

Cinema Pictures, Incorporated
APTA Division
10212 Noble Avenue, Mission Hills, California 91343

Dutton and Company, Incorporated
201 Park Avenue Souty, New York, New York 10003

Educators Progress Service, Incorporated
214 Center Street, Randolph, Wisconsin 53956

Ferguson Publishing Company
6 North Michigan Avenue, Chicago, Illinois 60611

McKnight Publishing Company
Bloomington, Illinois 61701

MaCrae Smith Company
225 South 15th Street, Philadelphia, Pennsylvania 19102

Medical Examination Publishing Company, Incorporated
6536 Fresh Meadow Lane, Flushing, New York 11365

Public Documents Department
United States Government Printing Office
Washington, D. C. 20402

Rosen Press
29 East 21st Street, New York, New York 10010

Serena Press
Publisher of Guides and Directories
70 Kennedy Street, Alexandria, Virginia 22305

Southern Media Systems
P. O. Box 4033, Baton Rouge, Louisiana 70821

Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

Thompson-Mitchell and Associates
2996 Grandview Avenue, N. E., Atlanta, Georgia 30305

Thomas Nelson, Incorporated
30 East 42nd Street, New York, New York 10017

Vocational Guidance Manuals
Division of Data Courier, Incorporated
620 South 5th Street, Louisville, Kentucky 40202

AUDIO-VISUAL

Health Related Organizations

American Association for Laboratory Animal Science
4 East Clinton Street, P. O. Box 10, Joliet, Illinois 60434

American Dental Association
211 East Chicago Avenue, Chicago, Illinois 60611

American Dental Hygiene Association
211 East Chicago Avenue, Suite 1616, Chicago, Illinois 60611

American Dietetic Association
430 North Michigan Avenue, Chicago, Illinois 60611

American Medical Record Association
875 North Michigan Avenue, Suite 1850, Chicago, Illinois 60611

American Occupational Therapy Association
6000 Executive Boulevard, Rockville, Maryland 20852

American Personnel and Guidance Association
1607 New Hampshire Avenue, N. W., Washington, D. C. 20009

American Physical Therapy Association
1156 15th Street, N. W., Washington, D. C. 20005

American Speech and Hearing Association
9030 Old Georgetown Road, Washington, D. C. 20014

American Veterinary Medical Association
600 South Michigan Avenue, Chicago, Illinois 60605

California Hospital Association
1127 11th Street, Sacramento, California 95814

EEGE Association
4715 Kingsessing Avenue, Philadelphia, Pennsylvania 19143

Music Therapy Centers
840 8th Street, New York, New York 10019

National Association for Mental Health Film Service
P. O. Box 7316, Alexandria, Virginia 22307

National Association for Music Therapy, Incorporated
P. O. Box 610, Lawrence, Kansas 66044

National Easter Seal Society for Crippled Children and Adults
2023 Ogden Avenue, Chicago, Illinois 60612

National Environmental Health Association
1600 Pennsylvania Avenue, Denver, Colorado 80203

National Foundation/March of Dimes
Box 2000, White Plains, New York 10602

Nebraska Psychiatric Institute
Communications Division
602 South 44th Avenue, Omaha, Nebraska 68105

National Society for Medical Research
1330 Massachusetts Avenue, N. W., Washington, D. C. 20005

Rehabilitation Institute of Chicago
A-V Department
345 East Superior Street, Chicago, Illinois 60611

United Cerebral Palsy Association
66 East 34th Street, New York, New York 10016

Publishing Companies

AIMS Instructional Media Services, Incorporated
626 Justin Avenue, Glendale, California 91201

American Educational Films
132 Lasky Drive, Beverly Hills, California 90212

Association-Sterling Films
866 Third Avenue, New York, New York 10022

BFA Educational Media
2211 Michigan Avenue, P. O. Box 1795, Santa Monica,
California 90406

Careers, Incorporated
P. O. Box 135, Largo, Florida 33540

Carousal Films, Incorporated
1501 Broadway, New York, New York 10036

Creative Learning Center
105 Edgevale Road, Baltimore, Maryland 21210

Counselor Films, Incorporated
2100 Locust Street, Philadelphia, Pennsylvania 19103

Doubleday Multimedia
1371 Reynolds Avenue, Santa Ana, California 92705

Greenberg-May Productions, Incorporated
148 Virginia Street, Buffalo, New York 10201

Goodwill Industries of America
9200 Wisconsin Avenue, Washington, D. C. 20014

International Film Bureau, Incorporated
332 South Michigan Avenue, Chicago, Illinois 60604

Interpretive Education
400 Bryant Street, Kalamazoo, Michigan 49001

Interstate
2901 Earhart Boulevard, New Orleans, Louisiana 70130

Lawren Productions, Incorporated
P. O. Box 1542, Burlingame, California 94010

Listening Library, Incorporated
One Park Avenue, Old Greenwich, Connecticut 06870

McKnight Publishing Company
Box 2854, Bloomington, Illinois 61701

Milner-Fenwick, Incorporated
3800 Liberty Heights Avenue, Baltimore, Maryland 21215

Modern Talking Picture Service
2323 New Hyde Park Road, New Hyde Park, New York 11040

National Audio-Visual Center (GSA)
National Archives and Records Service
Washington,D. C. 20409

Parke, Davis and Company
Detroit, Michigan 48232

Sadler Institutional Films, Incorporated
1001 North Poinsettia Place, Hollywood, California 90046

Science Research Associates, Incorporated
259 East Erie Street, Chicago, Illinois 60611

University of Southern California
Film Distribution Center
University Park, Los Angeles, California 90007

Vocational Films
111 Euclid Avenue, Park Ridge, Illinois 60068

Wadiko Films
267 West 25th Street, New York, New York 10001

Wyeth Laboratories
Philadelphia, Pennsylvania 19101

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AUDIO-VISUAL MATERIALS

16mm Films

1. Applying for A Job: $48.50; National Audio-Visual Center (GSA), Washington,D.C. 20409
2. Bright Future, A.: $150.00; American Dental Hygienist Association, Suite 1616, 211 East Chicago,IL 60611
3. Careers: Health Services: $155.00; Doubleday Multimedia, 1371 Reynolds Ave., Santa Ana, CA 92705
4. Careers in the Health Services: $225.00; American Personnel and Guidance Association, 1607 New Hampshire Ave.,NW., Washington, D.C. 20009
5. City in White: $154.00; Lawren Productions,Inc., P.O. Box 1542, Burlingame,CA 94010
6. Code Blue: $11.50; National Audio-Visual Center (GSA), Washington, D.C. 20409
7. Decision, The: $209.00; Cinema Pictures,Inc., APTA Division, 10212 Noble Ave.,Mission Mills,CA 91343
8. Diagnosis in Therapy with Radiation: $98.75; National Audio-Visual Center (GSA), Washington,D.C. 20409
9. Doctor Who Sees Through You, The : $115.00; Lawren Productions,Inc., P.O. Box 1542, Burlingame,CA 94010
10. Dental Assistant: A Career of Service: $42.25; National Audio-Visual Center (GSA), Washington,D.C.20409
11. How Are You ? : $125.00; Nebraska Psychiatric Institute, 602 South 44th Ave., Omaha, NB 68105
12. "I" in the Beat, The : $150.00; Greenberg-May Productions, Inc., 148 Virginia St., Buffalo,N.Y. 14201
13. Invisible Doctor, The : $88.00; Lawren Productions,Inc., P.O. Box 1542, Burlingame,CA 94010
14. Is A Career in the Health Services for You ? : $190.00; Counselor Films,Inc., 178 Cherry St., Philadelphia,PA 19103

15. Jobs in the Health Field: $43.00; National Audio-Visual Center (GSA), Washington,D.C. 20409

16. Looking for Me: $175.00; University of California Extension Media Center, Berkeley,CA 94720

17. Making A Difference: $200.00; American Occupational Therapy Association, 6000 Executive Blvd., Rockville,MD 20854

18. Nine Single Concepts:$153.00; National Audio-Visual Center (GSA), Washington,D.C. 20409

19. Opening Doors to Mental Health: $150.00; Nebraska Psychiatric Institute, 602 South 44th Ave., Omaha, NE 68105

20. Paramedic (Heart Rescue): $155.00; Aims Instructional Media Services,Inc., 626 Justin Ave., Glendale,CA 91201

21. Seven for Suzie : $55.00; National Easter Seal Society, 2023 West Ogden Ave., Chicago,IL 60612

22. Toward the Victory of Health : $175.00; American Dietetic Association, 430 North Michigan Ave., Chicago,IL 60611

23. Rapid Frozen Section Techniques: $11.50; National Audio-Visual Center (GSA), Washington,D.C. 20409

24. World of the Right Size : $135.00; Nebraska Psychiatric Institute, 602 South 44th Ave., Omaha, NE 68105

Cassettes

1. American Occupations Series: $4.90 each; Thompson - Mitchell and Assoc., 2996 Grandview Ave.,NE Roberts Bldg., Atlanta,GA 30305

2. Health Careers : $105.00 (kit); Classroom World Productions, Raleigh,NC 27600

3. Working as a Dental Hygienist: $17.95; Current Affairs, 24 Danburg Rd., Wilton,CT 06897

4. Working as a Paramedic : $17.95; Current Affairs, 24 Danburgh Rd., Wilton, CT 06897

Filmstrip/Cassette

1. Careers by Hoffman: $11.95 each; Hoffman, 4423 Arden Dr., El Monte,CA 91734
2. Health Care Careers:$113.00 (kit); McKnight Publishing Co., Bloomington,IL 61701
3. Health Services #1, #2: $59.90 each; Vocational Films, 111 Euclid Ave., Park Ridge,IL 60068
4. Making It in Human Services : $44.00; Current Affairs, 24 Danburg Rd., Wilton,CT 06897
5. Pharmacy : A Health Career : $20.00; American Association Colleges of Pharmacy, Suite 201, 4630 Montgomery Ave., Bethesda, MD 20014
6. Success Story, A : Optometric Technician : $10.00; Thompson-Mitchell and Assoc., 2995 Grandview Ave.,NE, Roberts Bldg., Atlanta,GA 30305

Slide/Cassette

1. Medical Records Rersonnel : $35.00; American Medical Record Association, 875 North Michigan Ave., Suite 1850, Chicago,IL 60611
2. UCP Story, The : $25.00 United Cerebral Palsy Association, 66 East 34th St., New York,NY 10016

APPENDIX D

SOURCE OF FUNDING

SOURCE OF FUNDING

The Allied Health Professions Counseling Program was funded for a three year period for the purpose of developing, implementing, and evaluating a model secondary education health professions counseling program within the existing New Orleans Public School System.

The primary source of funding was provided by Contract Number 231-75-0217, Bureau of Health Manpower, Health Resources Administration, 9000 Rockville Pike, Bethesda, Maryland 20014. Local support for the project was provided by the New Orleans Public School System, 4100 Touro Street, New Orleans, Louisiana 70122.

APPENDIX E

COUNSELORS' QUESTIONNAIRE

COUNSELORS' QUESTIONNAIRE
(MAY 1979)

1. Do you think young people have an opportunity to become a vital part of the new medical revolution, and in doing so can reap satisfaction and reward ?

2. "Never before", according to the federal government, "has there been as much emphasis for health services in federal, state and local planning and in business and industry." Do you feel this emphasis will provide more opportunities to minority students ?

3. How do think we can motivate students to take courses that will prepare them for health realted careers ?

4. Do you think one's sex has much to do with his/her health career choice for minority students ?

5. Do you think that the community is adequately supplied with institutions offering allied health careers ?

6. Should there be a waiver of application and test fees for students planning to enter allied health careers ?

APPENDIX F

TELEPHONE QUESTIONNAIRE

TELEPHONE QUESTIONNAIRE (MAY 1970)

1. Are you now attending any educational institution such as business school, junior college, university or technical school ?

Yes _____ No _____

2. If "yes" what kind of school are you attending ?

_______________________ _________________

If "no" do you plan to seek further academic training ?

Yes ______ No ______

If "yes" will you seek training in one of the allied health fields ?

Yes ______ No ______

2. Have you applied for a job related to an allied health field ?

Yes ______ No ______

For Experimental Group Only

If "yes" did the Allied Health Program at _______________ School influence your choice ?

How many years did you participate in the allied health program at _______________ (school) ?

_________ Number of years

APPENDIX G

ATTITUDE SURVEY

ATTITUDE SURVEY (MAY 1979)

Place an "x" below the column which reflects your viewpoint about the following statements.

(SA - strongly agree, A - agree, DA - disagree, SD - strongly disagree)

	SA	A	DA	SD
1. The program provided me the opportunity to learn about the many offerings in the field of allied health.				
2. The instructional presentations of the program caused me to consider an allied health field as a future profession.				
3. The field trips were a very good way to reinforce classroom presentations.				
4. The allied health program motivated me to consider further academic training but not necessarily in an allied health related field.				
5. I feel personally fit for any of the health careers presented in the program.				
6. I feel willing to do what is necessary to prepare myself for an allied health career.				

APPENDIX H

BIBLIOGRAPHY

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Abramo, Barbara and Henry Feder, et.al. Teaching the Retarded Child
Flushing, N.Y. Medical Examination Publishing Company, Inc., 1975.

Allied Health Professions Education Subcommittee of the National Advisory Health Council. Education for the Health Professions and Services
Washington,D.C. U. S. Government Printing Office, 1967.

American Dietetic Association. Your Future as a Dietician
Rev. Ed., New York: Arco, 1975.

American Hospital Association. Army, Navy, and Air Force Training Programs
Chicago: American Hospital Association, 1971.

American Medical Association Council on Medical Education. Allied Medical Education Directory 1974 Chicago: American Medical Association,1974.

Anderson, Pauline C. , M.A.,D.C.A. The Dental Assistant
Albany, N.Y. : Delmar Publishers, 1970.

Arnold, Arnold. Career Choices for the '70's . New York :
Crowell - Collier, 1971.

Arns, Kathleen and Diane E. Watson. Careers in Focus: Exploring Health Occupations New York : Gregg Division/McGraw-Hill,Inc., 1976.

Barry, Roger D. Basic Chemistry Indianapolis : The Bobbs-Merrill Company, Inc. , 1975 .

Berkeley, Selma G. and Barbara E. Jackson. Your Career as a Medical Secretary Transcriber New York : Wiley, 1975 .

Bredow, Miriam and Marion G. Cooper. The Medical Assistant
New York : McGraw-Hill Book Co. , 1970 .

Carlisle, Norman. Marvels of Medical Engineering New York : Sterling,1966 .

Castano, Francis A., Betsey A. Alden. Handbook of Expanded Dental Auxiliary Practice Philadelphia : J. B. Lippincott Co., 1973 .

Catalog of United States Government Produced Audiovisual Materials.
Washington, D.C. : National Audiovisual Center (GSA)., 1974.

Chernok, Norma B. Your Future in Medical Assisting
2nd. Ed., New York : Rosen, 1976 .

Chronicle Guidance. Chronicle Occupational Briefs Moravia, N. Y. :
Chronicle Guidance Publications, Inc., 1975 .

Chronicle Guidance . 1975-1976 Guide to Two-Year College Majors and Careers Moravia, N. Y. : Chronicle Guidance Publications,Inc. 1975 .

Chronicle Guidance. 1975-1976 Guide to Four-Year College Majors and Careers Moravia, N. Y. : Chronicle Guidance Publications,Inc. 1975 .

Chronicle Guidance. Student Aid - Annual 1975-1976 Moravia, N. Y. Chronicle Guidance Publications,Inc., 1975 .

Coddington, R. Dean and L. Eugene Arnold, et.al. Child Psychiatry Case Studies Flushing, N. Y. : Medical Examination Publishing Company, Inc.,1973.

Cohen, Raymond. Your Future in Dentistry New York : Rosen, 1960 .

Comte, Robert F. Management Procedures Indianapolis : The Bobbs-Merrill Company, Inc., 1975 .

Department of Allied Medical Professions and Services. Allied Medical Education Directory 1974 Chicago : American Medical Association, 1974 .

Dodge, Bertha S. Hands That Help: Careers for Medical Workers Boston : Little, 1967 .

Dowdell, Dorothy. Careers in Horticultural Sciences New York : Messner, 1969 .

Duffy, John C., Ed. Child Psychiatry Flushing, N. Y. : Medical Examination Piblishing Co., Inc., 1974 .

Eaton, Merrill T., Jr. and Margaret H. Peterson. Psychiatry Flushing, N. Y. : Medical Examination Publishing Company,Inc. 1969 .

Edwards, Gabrielle I., Marion Cimmino . Laboratory Techniques for High Schools Woodbury, N. Y. : Barron's Educational Series,Inc., 1974 .

Englehart, Stanley L. Jobs in Health Care New York : Lothrop, Lee & Shepard Co., 1973 .

Esler, Elisa P. Barriers to Minorities in Allied Health Professions Education: A Report of Seven Southeastern States Research Triangle Park, N. C. : Research Triangle Institute, 1975 .

Fisher, J. Patrick . Basic Medical Terminology Indianapolis : The Bobbs-Merrill Company, Inc., 1975 .

Foster, Martha M. Medical Office Practice Indianapolis : The Bobbs-Merrill Company,Inc., 1975.

Foy, Donald F., B.S.,M.S., M.P.H., and Murray Lawton,M.D. Comprehensive Review for the Medical Assistant St. Louis : The C. V. Mosby Co., 1972 .

Franciscus, Marie Louise, O.T.R., and Marguerite Abbott, O.T.R.
Opportunities in Occupational Therapy New York :
Universal Publishing and Distributing Corp., 1968.

Frederick, Portia M. The Office Assistant in Medical Practice
Philadelphia : Saunders, 1967 .

Freeman, Dorothy Rhodes. VIP Behind the Scene in Medical Work
Chicago : Children's Press, 1973 .

Freese, Arthur S. Careers and Opportunities in the Medical Sciences
1st. Ed., New York : E. P. Dutton, 1971 .

Frost, Jane C. Your Future in Dental Assisting New York : Rosen, 1964 .

Gable, Fred B. Opportunities in Pharmacy Careers Louisville :
Vocational Guidance Materials,Inc., 1975 .

Gregg, James R. Your Future in Optometry New York : Arco, 1971 .

Guide to Government - Loan Films : Vol. 1. The Civilian Agencies
Alexandria, Virginia : Serina Press, 1976 .

Guide to Government - Loan Films : Vol. 2. The Defense Agencies
Alexandria, Virginia : Serina Press, 1976 .

Health Career Kits Largo, Florida : Careers,Inc., 1976 .

Hicks, Dorothy J., and Barbara S. Innes. Patient Care Techniques
Indianapolis : The Bobbs-Merrill Company, Inc., 1975 .

Hirschborn, Hans S. Your Future as an Optician New York : Rosen, 1970 .

Hopke, William E. The Encyclopedia of Careers and Vocational Guidance
Chicago : Ferguson, 1972 .

Institute for Research. Career and Job Opportunities for Women
as Dental Assistants Chicago : Institute for Research, 1972 .

Institute for Research. Career as a Medical X-Ray Technologist
Chicago : Institute for Research, 1964 .

Institute for Research. The Medical Secretary, the Medical Assistant :
Doctor's Office Careers for Women Chicago : Institute for Research, 1970.

Johnson, Winifred Heyward, R.N, Introduction to Nursing Care
New York : McGraw-Hill, 1976 .

Kalb, S. William. Your Future as a Physician New York : Arco, 1975 .

Kay, Eleanor. Health Care Careers New York : Watts, 1973 .

Keefe, John. The Joy of Work New York : Richard Rosen Press, 1974 .

Keyes, Fenton. Aim for a Job in the Allied Health Field New York : Richard Rosen Press, 1974 .

Keyes, Fenton. Your Future in a Medical Health Career New York : Richard Rosen Press, 1976 .

Kimbrell, Mary Ellen. Introduction to Health Care Careers - Text Activity Manual Bloomington, Illinois : McKnight Publishing Company., 1975 .

Kinsinger, Robert E. Health Technicians Chicago : Ferguson, 1970 .

Kirk, W. Richard, F.A.C.H.A. Your Future in Hospital and Health Services Administration New York : Richard Rosen Press, 1976 .

Kitchell, Frank M., O.D. Opportunities in Optometry Louisville : Vocational Guidance Manuals,Inc., 1974 .

Kitchell, Frank M., O.D. Opportunities in an Optometry Career New York : Educational Books Division of Universal Publishing and Distributing Corp., 1967 .

Kraemer, James E., R.Ph. Your Future in Pharmacy New York : Arco, 1975.

Krumhanl, Bernice. Opportunities in Physical Therapy Louisville : Vocational Guidance Manuals, Inc., 1974 .

Kurtz, Harold P. and Margaret Burrows. Effective Use of Volunteers in Hospitals, Homes and Agencies Springfield : Charles C. Thomas, 1971 .

Lawton, M. Murray and Donald F. Foy. Comprehensive Review for the Medical Assistant St. Louis : The C. V. Mosby Co., 1972 .

Lawton, M. Murray M.D. and Donald F. Foy, B.S., M.S., M.P.H. A Textbook for Medical Assistants St. Louis : The C. V. Mosby Co., 1971 .

Lebowitz, Gordon. You, and a Health Career New York : Fairchild Publications. Inc., 1972 .

Lee, Essie E. Careers in the Health Field New York : Messner, 1972.

Lebowitz, Gordon. Careers in Therapy, Medical Technology and Nutrition New York : Fairchild Publications, Inc., 1974 .

Linneman, Robert E. Turn Yourself On New York : Richard Rosen Press, 1970 .

Little, Gladys M., George E. Myers and Sarah A. Robinson. Planning Your Future New York : McGraw-Hill, 1953.

Lobb, Charlotte. Exploring Careers through Volunteerism New York : Richard Rosen Press, 1976 .

Lovejoy, Clarence E. Lovejoy's Career and Vocational School Guide New York : Simon & Schuster, 1955 .

McTernan and Hawkins. Educating Personnel for the Allied Health Professions and Services St. Louis: The C. V. Mosby Co., 1972 .

Messina, Edmund J., Jr. Cytology : Introduction to Cellular Structure and Function Indianapolis : The Bobbs-Merrill Company, Inc., 1975 .

Milles, George. Health Careers and Medical Sciences Indianapolis : The Bobbs-Merrill Company, Inc., 1975 .

Milliken, Mary Elizabeth, Ed.D., Verna Jane Muhl, B.S.N., and Paul Scott. Health Careers Cooperative Education in Georgia Athens, GA : University of Georgia , 1974 .

Mosier, Alice K. Medical Records Technology Indianapolis : The Bobbs-Merrill Co., 1975 .

Moyer, Elizabeth A., O.T.R. Self-Assessment of Current Knowledge in Occupational Therapy Flushing, N. Y. : Medical Examination Publishing Company, Inc., 1976 .

Nakamura, Julia. Your Future in Medical Illustration : Arts and Photography New York : Rosen, 1971 .

Neal, Harry Edward. Disease Detectives : Your Career in Medical Research New York : J. Messner, 1959 .

Newman, Parley W. Opportunities in Speech Pathology New York : University Publication and Distributing Corp., 1968 .

Obasun, Dan A., Ph.D. Allied Health Counselor Training Program: Trainee's Reference Guide Washington, D.C. : Institute for Services to Education, Inc., 1975 .

Odgers, Ruth F., and Burness G. Wenberg. Introduction to Health Professions St. Louis : The C. V. Mosby Co., 1972 .

Paige, Barbara E. Your Future as a Dental Hygienist Rev. Ed., New York : Richard Rosen Press, 1969 .

Paul, Grace. Your Future in Medical Technology New York : Arco, 1971.

Pennell, Maryland Y., John R. Profitt, and Thomas D. Hatch. Accreditation and Certification in Relation to Allied Health Manpower Washington. D.C. : U.S. Government Printing Office, 1971 .

Pennell, Maryland Y., MSC., and David B. Hoover, M.P.H. Health Manpower Source Book 21 : Allied Health Manpower Supply and Requirements : 1950-80 Washington, D.C. : U.S. Government Printing Office, 1970 .

Peterson, Shailer. The Dentist and His Assistant St. Louis : The C. V. Mosby Co., 1972 .

Pincus, Stanley . Respiratory Therapist Manual Indianapolis : The Bobbs-Merrill Inc., 1975 .

Pollack, Philip . Careers and Opportunities in Science New York : Dutton, 1968 .

Poole, Lynn and Gray . Electronics in Medicine New York : McGraw-Hill, 1964.

Rambo, Beverly J., R.N. , M.A.,M.N, and Diane Edith Watson,B.A., M.S. Your Career in Health Care New York : McGraw-Hill, 1976.

Ray, Robert D. M.D. and Riad Barmada, M.D. Orthopedic Surgery Case Studies Flushing, N.Y. : Medical Examination Publishing Company, Inc., 1976 .

Reap, Charles A. Complete Dental Assistant's, Secretary's and Hygienist's Handbook West Nyack, N.Y. : Parker Publishing Co., 1973 .

Reynolds, William John . Career Planning for High School Students New York : Harper, 1953 .

Reynolds, Mora Davison . Aim for a Job in the Medical Laboratory New York : Richard Rosen Press, 1972 .

Richardson, Richard E. and Roger E. Barton . The Dental Assistant New York : McGraw-Hill, 1970 .

Riser, Wayne H., D.V.M., M.S. Your Future in Veterinary Medicine New York : Arco- Rosen, 1976 .

Robinson, Alice, R.N. Your Future in Nursing Careers Rev. Ed. New York : Richard Rosen Press, 1972 .

Sarnoff, Raul . Careers in Biological Science New York : Messner, 1968.

Science Research Associates. Job Family Series: Jobs in Health Chicago : Science Research Associates, Inc., 1975 .

Seide, Diane . Careers in Medical Science Nashville : T.Nelson, 1973 .

Skinner, Orten C. Basic Microbiology Indianapolis : The Bobbs-Merrill Company, Inc., 1975 .

Splaver, Sarah . Careers of the Future and the Present: Paraprofessions New York : Messner, 1971 .

State Department of Public Education . Louisiana Department of Education Career Guides for Louisiana Students Baton Rouge : State Dept. of Public Education, 1971 .

Stone, Donald R. and Charles E. Lambert . *Orthopedic Physician's Assistant Techniques* Indianapolis : Howard W. Sans & Company, Inc., 1975 .

Story, Donna Ketchym, R.N.,M.A. *Activities and Projects for Principles and Practices of Nursing Care* New York : McGraw-Hill, 1976 .

Story, Donna Kethchym, R.N., M.A. *Principles and Practices of Nursing Care* New York : McGraw-Hill, 1976 .

Stryker, Ruth Perin . *The Hospital Ward Clerk* St. Louis : The C. V. Mosby Co., 1970 .

Taylor, Thomas J. *Medical Mathematics* Indianapolis : The Bobbs-Merrill Company, Inc., 1975 .

Thornton, John Leonard . *Medical Librarianship : Principles and Practices* New York : Philosophical Library, 1963 .

Tobin, Charles E. *Human Anatomy* Indianapolis : Howard W. Sans & Company, Inc., 1975 .

Toy, Henry . *Federal Dollars for Scholars* 1st. Ed., Washington, D.C. : Nu-Toy, Inc., 1970 .

Turner, David R. *Professional Career Tests : The Complete Study Guide for Scoring High on the Exam* New York : Arco, 1953 .

United States Bureau of Labor Statistics . *Occupational Out-Look Handbook* Washington, D.C. : U.S. Bureau of Labor Statistics, n.d.

United States Bureau of Labor Statistics . *Occupational Outlook for College Graduates* Washington, D.C. : U.S. Government Printing Office. 1970-71 .

United States Department of Health, Education, and Welfare . *Health Careers Guidebook* Washington, D.C. : U.S. Government Printing Office , 1972 .

United States Department of Health, Education, and Welfare . *National Medical Audiovisual Center Catalog : Audiovisuals for the Health Scientist* Washington, D.C. : U.S. Government Printing Office, 1974 .

United States Department of Health, Education, and Welfare . *The Supply of Health Manpower* Washington, D.C. : U.S. Government Printing Office, 1972 .

United States Employment Service . *Dictionary of Occupational Titles* Washington, D.C. : U.S. Government Printing Office, 1965 .

Washburn, Kenneth B. *Physical Medicine and Rehabilitation : A Practitioner's Guide* Flushing, N.Y. : Medical Examination Publishing Co.,Inc., 1976 .

Weir, Richard Kirk . Your Future in Hospital Work New York : Arco, 1971 .

Willard and Spackman . Occupational Therapy Philadelphia : Lippincott Co., 1963 .

Williams, Margaret Ruth . An Introduction to the Profession of Medical Technology Philadelphia : Lea & Felger, 1971 .

Wittman, Karl S., Ph.D. Activities and Projects for Basic Sciences for Health Careers New York : McGraw-Hill, 1976 .

Wittman, Karl S., Ph.D. Basic Sciences for Health Careers New York : McGraw-Hill, 1976 .

Wolf, Sheldon M., Thoedore L. Munsat, and Peter B. Dunne . Neurology Case Studies Flushing, N.Y. : Medical Examination Publishing Company, Inc., 1975 .

Woosley, Hugh and Patrick Civiello . Basic Medical Laboratory Subjects Indianapolis : The Bobbs-Merrill, Inc., 1975 .

Zimmerman, Robert L. Medical Radiographic Technology Indianaplois : The Bobbs-Merrill ,Inc., 1975 .

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